

ADDENDUM TO CONTRACT DOCUMENTS

Project: Tigard Senior Center
8815 SW O'Mara Street
Tigard, Oregon 97223

Owner: City of Tigard
13125 SW Hall Blvd.
Tigard, Oregon 97223

To: Plan Holders

Architect: LRS Architects, Inc.
720 NW Davis Street, Suite 300
Portland, OR 97209

Project No. 207037

Date: October 8, 2007

Addendum No: 2

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated September 17, 2007 and Addendum No. 1 dated September 20, 2007. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

PROJECT MANUAL

2.1 Document 00 0110:Table of Contents

New: Section 26 5600: Exterior Lighting

Revise: Section 28 3100: Fire Detection and Alarm

2.2 Document: ITB

Revise: Invitation to Bid Page 1 as follows:

Date Due: Tuesday, October 16, 2007

Revise: Invitation to Bid Page 6 Paragraph 1 first sentence to read:

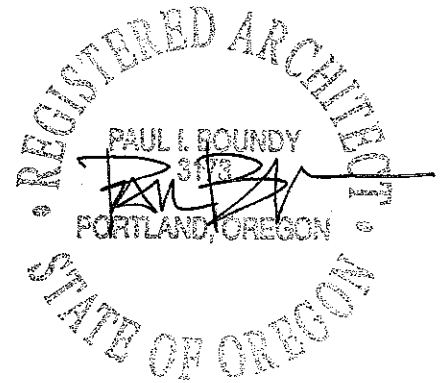
1. Submission

"One (1) original ~~and three (3) copies~~ of the sealed Bid must be received before the stated closing time at the address listed below...."

Revise: Invitation to Bid Page 7 Paragraph 3 to read:

3. Anticipated Term of Contract

The contract period shall begin on or around November 7, 2007 and end on or around February 29, 2008 with substantial completion of interior renovations achieved by January 4, 2008 and occupancy of interior renovations achieved by January 15, 2008; substantial completion of exterior expansion achieved by February 15, 2008 and final completion by February 29, 2008, This timeframe may be revised slightly prior to contract execution. In accordance with Tigard Public Contracting Rules, the total duration of the Contract may not exceed five (5) years.



Revise: Invitation to Bid Page 9 Section 6 Paragraph 1 to read:

1. TIME TABLE

<u>Tuesday, September 18, 2007</u>	Public Notice & Invitation to Bid Release
<u>Tuesday, October 16, 2007 at 2:00 PM</u>	ITB Closing Date & Time
<u>Tuesday, October 16, 2007 at 4:00 PM</u>	1 st Tier Subcontractor Disclosure Due
<u>Tuesday, November 6, 2007</u>	Award of Contract by LCRB
<u>Wednesday, November 7, 2007</u>	Contract Commencement Date
<u>Friday, January 4th, 2008</u>	Substantial Completion – Interior Renovations
<u>Tuesday, January 15th, 2008</u>	Operation/Occupancy of Interior Renovations
<u>Friday, February 15th, 2008</u>	Substantial Completion New Construction
<u>Friday, February 29th, 2008</u>	Final Completion

Add: Invitation to Bid Page 10 Section 6 Paragraph 9

9. Time of Completion:

"Time of Completion" in regards to the damages are defined as the unencumbered use of the Food Service, Loading, Dining and Restroom facilities within the existing Senior Center. Reasonable temporary access to and from these facilities must be provided through the area of new construction effecting the upper level building entrance.

Revise: ITB Attachment E Public Improvement Contract Page 18 Paragraph B to read:

B Timing of Payments: Progress payments, less a five percent retainage as authorized by ORS 279C.555, shall be made to the Contractor within twenty (20) days of the City's receipt of the statement of services. The Contractor agrees that the "Time of Completion" is defined in the Bid Proposal, and agrees to complete the work by said date. The Contractor and City agree that the City will suffer damages each day the work defined below remains uncompleted after the Time of Completion and that the amounts of those damages are difficult to calculate. Contractor and City agree that a reasonable amount of damages for late completion is \$300 per day and Contractor agrees to pay damages in that amount if the work is not completed by the Time of Completion.

"Time of Completion" in regards to the damages are defined as the unencumbered use of the Food Service, Loading, Dining and Restroom facilities within the existing Senior Center. Reasonable temporary access to and from these facilities must be provided through the area of new construction effecting the upper level building entrance.

2.3 Section 06 1000: Rough Carpentry

Add: Subparagraph 2.3.E.5, as follows:

5. Framing supports and plywood at loading dock, exterior wood ramp and exterior wood stair.

Add: Subparagraph 2.4.E.3, as follows:

3. Exposed Plywood at Loading Dock: C-D plywood, square edges, Span Rating 32/16, Exterior, Structural I; 1-1/8 inch thickness.

Add: Subparagraph 2.4.E.4, as follows:

4. Exposed Plywood at Exterior Ramp: C-D plywood, square edges, Span Rating 32/16, Exterior, Structural I; 3/4 inch thickness.

2.4 Section 06 2000: Exterior Finish Carpentry

Revise: Subparagraph 1.1.A, as follows:

1. Exterior Standing and Running Trim.
2. Exterior Wood Stairwork.
3. Fencing at Trash Enclosure

Revise: Subparagraph 2.2.A.6, as follows:

6. Application: Exterior trim and other exterior wood carpentry work indicated in Drawings.

Revise: Article 2.5, as follows:

"2.5 STAIRWORK, FENCING

A. Wood Species for Stairwork:

1. Species: Douglas Fir or Hem-Fir; WCLIB, or WWPA; Grade B
2. Finish: Opaque

B. Wood Species for Fencing:

1. Species: Western Red Cedar, WCLIB Industrial Clears; Grade B or better, WWPA Grade B.
2. Finish: Opaque"

Revise: Subparagraph 3.5.3, as follows:

3. Support railings as indicated in Drawings.

2.5 Not Used

2.6 Section 07 5100: Built-Up Bituminous Roofing

Add: Subparagraph 2.1.A.3, as follows:

3. GAF Materials Corp. I-O-4-M/P6.

2.7 Section 08 7113: Automatic Door Operators

Revise: Subparagraph 2.2.A.1, as follows:

1. Swinging doors for one-way traffic.

2.8 Section 08 9000: Louvers and Vents

Revise: Paragraph 2.4.B, as follows:

- B. Basis-of-Design Product: Greenheck ESJ-202.

Revise: Paragraph 2.4.C, as follows:

- C. Components:

1. Frame: 0.063 inch wall thickness.
2. Blades: 0.063 inch thickness.
3. Frame Depth: 2 inches.
4. Size: As shown.
5. Bird Screen: 1/2 inch square mesh with 0.063 inch wire, or 3/4 by 0.050 inch thick flattened, expanded aluminum.
6. Louver Factory Finish: Kynar 500.
 - a. Color: As selected from manufacturer's standard.

Add: Paragraph 2.1.C, as follows:

- C. Acceptable substitutions, subject to compliance with requirements:

1. Wonder Metals Corporation.

2.9 Section 09 9000: Painting

Revise: Subparagraph 3.7 E heading to read, as follows:

"E. Primer: Wood - Opaque Finish (No primer at wood loading dock, ramp and stairs):
[Addm. 2]"

Revise: Subparagraph 3.7 N, as follows:

"N. Finish Coat: Wood at Loading Dock, Ramp and Stairs: [Addm. 2]

1. First and Second Coats: Exterior Latex Flat MPI #127
ICI Dulux: Deck-Cote Acrylic Deck Coating.
Parker Paint: Dex-Coat
Sherwin Williams: Armorseal Tread-Plex Acrylic Water Based Floor Coating
B90W100 Series.
2. MPI Gloss Level 1: Flat; maximum gloss of 5 units at 60 degrees."

2.10 Section 10 2114: Plastic-Laminate-Clad Toilet Compartments

Add: Subparagraph 2.1.A.4, as follows:

4. Superior Partitions Inc.

2.11 Section 10 4400: Fire Protection Specialties

Delete: Section in its entirety

2.12 Section 11 1300: Loading Dock Equipment

Revise: Paragraph 2.2.A, as follows:

A. Molded-Rubber Bumpers:

1. Provide units of size and configuration indicated, fabricated from heavy molded-rubber compound reinforced with nylon, rayon, or polyester cord.
2. Furnish units with not less than three predrilled anchor holes.
 - a. Configuration: Square.
 - b. Size: 8 inches by 8 inches.
 - c. Thickness: 3 inches.

Revise: Subparagraph 2.2.B.1, as follows:

1. Provide nuts, washers, bolts, and other anchorage devices as required to fasten bumpers securely in place and to suit installation type indicated.

2.13 Section 11 4000: Foodservice Equipment

Revise: Subparagraph 1.1.B.3, as follows:

3. Section 09 6500: Resilient Flooring, for floor finishes.

Add: Subparagraph 2.1.D.5, as follows:

5. Cabinet and Drawer Pulls: Doug Mockett, stainless steel wire pull, DP57B.

2.14 Section 12 9313: Bicycle Racks

Add: Subparagraph 2.1.A.7, as follows:

7. Fair Weather Site Furnishings and Accessories

2.15 Section 26 0500: Common Work Results for Electrical

Add: Subparagraph 3.11, as follows:

"3.11 EXCAVATION AND BACKFILL:

- A. Perform all necessary excavation and backfill for the installation of electrical work in compliance with Division 31, 32 and 33.
- B. For direct burial cable or non-metallic conduit, a minimum 3-inch cover of sand or clean earth fill shall be placed all around the cable or conduit on a leveled trench bottom. Lay all steel conduit on a smooth level trench bottom, so that contact is made for its entire length. Water shall be removed from trench while electrical conduit is being laid.
- C. Place backfill in layers not exceeding 8-inches deep and compact to 95% of maximum density at optimum moisture to preclude settlement.
 - 1. Interior: Bank sand or pea gravel.
 - 2. Exterior: Excavated material with final 8-inches clean soil.
- D. Following backfilling, grade all trenches to the level of surrounding soil. All excess soil shall be disposed of at the site as directed.
- E. Provide 6-inches wide vinyl tape marked "ELECTRICAL" in backfill, 12-inches below finished grade, above all high voltage cable or conduit runs."
- F. Coordinate patching of all asphalt or concrete surfaces disturbed by this work with General Contractor.

2.16 Section 26 2726: Wiring Devices and Plates

Delete: Subparagraph 2.6: CABLE REELS WITH PORTABLE OUTLET BOX

2.17 Section 26 5600: Exterior Lighting

Add: New Section 26 5600: Exterior Lighting, per attachment.

2.18 Section 28 3100: Fire Alarm System

Replace: Section 28 3100: Fire Alarm System with new Section 28 3100: Fire Detection and Alarm, per attachment.

DRAWINGS

2.19 Drawing A102

Revise: Drawing A102 as indicated in 8-1/2 x 11 inch Drawing A102-R1, dated 10-08-07, per attachment.

2.20 Drawing A201D

Revise: Drawing A201D as indicated in 8-1/2 x 11 inch Drawing A201D-R1, dated 10-08-07, per attachment.

2.21 Drawing A201

Revise: Drawing A201 as indicated in 8-1/2 x 11 inch Drawing A201-R1, dated 10-08-07, per attachment.

2.22 Drawing A203

Revise: Drawing A203 as indicated in 8-1/2 x 11 inch Drawing A203-R1, dated 10-08-07, per attachment.

Revise: Drawing A203 as indicated in 8-1/2 x 11 inch Drawing A203-R2, dated 10-08-07, per attachment.

2.23 Drawing A204

Revise: Drawing A204 as indicated in 8-1/2 x 11 inch Drawing A204-R1, dated 10-08-07, per attachment.

Revise: Drawing A204 as indicated in 8-1/2 x 11 inch Drawing A204-R2, dated 10-08-07, per attachment.

2.24 Drawing A401

Revise: Drawing A401 as indicated in 8-1/2 x 11 inch Drawing A401-R1, dated 10-08-07, per attachment.

Revise: Drawing A401 as indicated in 8-1/2 x 11 inch Drawing A401-R2, dated 10-08-07, per attachment.

2.25 Drawing A501

Revise: Drawing A501 as indicated in 8-1/2 x 11 inch Drawing A501-R1, dated 10-08-07, per attachment.

2.26 Drawing A601

Revise: Drawing A601 as indicated in 8-1/2 x 11 inch Drawing A601-R1, dated 10-08-07, per attachment.

Revise: Kitchen Equipment List Item No.4 to read: "Existing To Remain"

2.27 Drawing A603

- Revise:** Drawing A603 as indicated in 8-1/2 x 11 inch Drawing A603-R1, dated 10-08-07, per attachment.
- Revise:** Drawing A603 as indicated in 8-1/2 x 11 inch Drawing A603-R2, dated 10-08-07, per attachment.
- Revise:** Drawing A603 as indicated in 8-1/2 x 11 inch Drawing A603-R3, dated 10-08-07, per attachment.

2.28 Drawing A604

- Revise:** Drawing A604 as indicated in 8-1/2 x 11 inch Drawing A604-R1, dated 10-08-07, per attachment.
- Revise:** Drawing A604 as indicated in 8-1/2 x 11 inch Drawing A604-R2, dated 10-08-07, per attachment.
- Revise:** Drawing A604 as indicated in 8-1/2 x 11 inch Drawing A604-R3, dated 10-08-07, per attachment.

2.29 Drawing A701

- Revise:** Drawing A701 as indicated in 8-1/2 x 11 inch Drawing A701-R1, dated 10-08-07, per attachment.

2.30 Drawing A801

- Revise:** Finish plan note in areas 107, 108, 111, 201, 212, 215 to read:
"LN/1,2,3"
- Revise:** Finish plan note in areas 103 to read:
"LN/1,3"

2.31 Drawing A802

Revise: Drawing A802 as indicated in 8-1/2 x 11 inch Drawing A802-R1, dated 10-03-07, per attachment.

Revise: Drawing A802 as indicated in 8-1/2 x 11 inch Drawing A802-R2, dated 10-03-07, per attachment.

Revise: Drawing A802 as indicated in 8-1/2 x 11 inch Drawing A802-R3, dated 10-03-07, per attachment.

2.32 Drawing SK-01

Add: New Drawing SK-01 as indicated in 8-1/2 x 11 inch Drawing, dated 10-08-07, per attachment.

2.33 Drawing SK-02

Add: New Drawing SK-02 as indicated in 8-1/2 x 11 inch Drawing, dated 10-08-07, per attachment.

2.34 Drawing SK-03

Add: New Drawing SK-03 as indicated in 8-1/2 x 11 inch Drawing, dated 10-08-07, per attachment.

2.35 Drawing PL1.0

Revise: Drawing PL1.0 as indicated in 8-1/2 x 11 inch Drawing PL1.0-R1, dated 10-03-07, per attachment.

2.36 Drawing PL2.1b

Revise: Drawing PL2.1b as indicated in 8-1/2 x 11 inch Drawing PL2.1b-R1, dated 10-03-07, per attachment.

2.37 Drawing M1.0

Revise: Drawing M1.0 as indicated in 8-1/2 x 11 inch Drawing M1.0-R1, dated 10-03-07, per attachment.

2.38 Drawing M2.1b

Revise: Drawing M2.1b as indicated in 8-1/2 x 11 inch Drawing M2.1b-R1, dated 10-03-07, per attachment.

2.39 Lighting Fixture Schedule

Allow Substitution:	Type C: Cooper Halo, H285EL-406SC
Allow Substitution:	Type C1: Cooper Halo, H285EL-406SC-EM
Allow Substitution:	Type C2: Cooper Halo, H285EL-70PS
Allow Substitution:	Type D: Cooper Halo, L741P/TRACK
Allow Substitution:	Type D1: Cooper Halo, L1830P/L252/TRACK

2.40 Electrical Drawings

Revise:	As indicated in Drawing E0.1 dated 10-08-07, per attachment.
Revise:	As indicated in Drawing E1.0 dated 10-08-07, per attachment.
Revise:	As indicated in Drawing E1.1 dated 10-08-07, per attachment.
Revise:	As indicated in Drawing E3.0 dated 10-08-07, per attachment.
Revise:	As indicated in Drawing E3.1 dated 10-08-07, per attachment.
Revise:	As indicated in Drawing E4.0 dated 10-08-07, per attachment.
Revise:	As indicated in Drawing E5.1 dated 10-08-07, per attachment.
Revise:	As indicated in Drawing E5.2 dated 10-08-07, per attachment.

ATTACHMENTS

Specifications:

Section 26 5600: Exterior Lighting
Section 28 3100: Fire Detection and Alarm

Drawings: 8-1/2 by 11 inch.

A102-R1	A201D-R1	A201-R1	A203-R1	A203-R2	A204-R1	A204-R2	A401-R1
A401-R2	A501-R1	A601-R1	A603-R1	A603-R2	A603-R3	A604-R1	A604-R2
A604-R3	A701-R1	A802-R1	A802-R2	A802-R3	SK-01	SK-02	SK-03
PL1.0-R1	PL2.1b-R1	M1.0-R1	M2.1b-R1				

Drawings: Full Size.

E0.1	E1.0	E1.1	E3.0	E3.1	E4.0	E5.1	E5.2
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END OF ADDENDUM NO. 2

PART 1 - GENERAL

1.1 WORK INCLUDED:

- A. Provide all lighting units as specified with a luminaire of the type designated and appropriate for the location. Outlet symbols on the Drawings without a type designation shall have a luminaire the same as those used in similar or like locations.
- B. Where a luminaire type designation has been omitted and cannot be determined by the Contractor, request a clarification from the Engineer and provide a suitable luminaire type as directed.
- C. Coordinate installation of luminaires with all other trades to provide a total system that is neat and orderly in appearance.
- D. Install all remote ballasts in enclosures as required by luminaire specified. Remote mounted ballasts shall be located within the distance limitations specified by the ballast manufacturer.

1.2 RELATED WORK IN OTHER SECTIONS:

- A. The provisions of Section 26 00 01 - Basic Electrical Materials and Methods, apply to work specified in this section.

1.3 QUALITY ASSURANCE:

- A. The lighting design for this project was based on luminaire types and manufacturers as specified.
- B. Other "Or Equal" Manufacturers and Products: Submit Substitution Request, complying with requirements of Section 01 Product Options and Substitutions.
- C. Equality shall be determined by the following luminaire characteristics.
Lack of data on any characteristic shall constitute justification for rejection of the submittal.

1. Performance:

- a. Distribution.
- b. Utilization.
- c. Average brightness/maximum brightness.
- d. Spacing to mounting height ratio.

2. Construction

- a. Engineering.
- b. Workmanship.
- c. Rigidity.
- d. Permanence of materials and finishes.

3. Installation Ease

- a. Captive parts and captive hardware.
- b. Provision for leveling.

4. Maintenance

- a. Relamping ease.
- b. Replacement of ballast and lamp sockets.

5. Appearance

- a. Light tightness.
- b. Neat, trim styling.
- c. Conformance with design intent

1.4 SUBMITTALS:

A. Submit the following in accordance with Section 26050:

- 1. Shop Drawings.
- 2. Product Data.
- 3. Photometry Reports consist of a minimum of: Candlepower Distribution Curves.
- 4. Certification of lamp ballast compatibility as well as lamp and lamp socket compatibility.
- 5. Operation and Maintenance Data.
- 6. Operational Sample upon request.

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. Luminaires shall have trims which fit neatly and tightly to the surfaces in which they are installed without leaks or gaps. Where necessary, install heat resistant non-rubber gaskets to prevent light leaks or moisture from entering between luminaires trim and the surface to which they are mounted.
- B. Luminaires installed under canopies, roofs or open areas and similar damp or wet locations shall be UL listed and labeled as suitable for damp or wet locations.

2.2 COMPACT FLUORESCENT LUMINAIRES:

- A. Ballasts: High power factor, suitable for lamp type(s) specified and switching controls indicated on drawings.
- B. Dimensions: Proper for the various wattage noted on the plans and as recommended by the luminaire manufacturer or as specified.
- C. Recessed: Equip with through wire junction box. Box, ballast and replaceable components shall be accessible from the ceiling opening.
- D. Finish: All visible surfaces to be of color and texture as directed in Luminaire Schedule. All concealed luminaire surfaces to be matte black.

2.3 HIGH PRESSURE SODIUM LUMINAIRES:

- A. Ballasts: Pulse start, CBM labeled, high power factor, constant wattage auto-transformer type, suitable for lamp type specified.
- B. Luminaire dimensions: Proper for the various wattage noted on the plans and as recommended by the luminaire manufacturer or as specified.

2.4 LAMPS:

- A. Lamp each luminaire with the suitable lamp cataloged for the specific luminaire type and as indicated as manufactured by General Electric, Phillips, Osram/Sylvania, Venture or approved equal.
- B. Compact Fluorescent Lamps: Of wattage and configuration indicated in Luminaire Schedule, Tri-Phosphor 3500°K. Lamps shall be single ended dual pin plug-in base, except those used with dimming ballasts, which shall utilize the 4-pin configuration.

2.5 EXTERIOR LIGHTING SYSTEMS:

- A. Unless otherwise indicated, provide cast-in-place concrete foundations with constructed forms for square foundations or round foundations with spirally wrapped treated paper forms. Provide concrete, anchor bolts, and reinforcing steel as indicated on the drawings.
- B. Poles shall be of material and form as indicated in the luminaire schedule. Poles shall be able to withstand winds of not less than 100 MPH and a gust factor of 1.30 with an ice load criteria up to .5 inch thick without damage to the pole and attached luminaire.
- C. All poles shall have a handhole with removable handhole coverplate which matches the material and finish of the pole. Handhole shall be located approximately 12 inches up from the pole base.
- D. All poles shall have an internal ground lug easily accessible from the handhole.
- E. Anchor Bolts shall be provided by the pole manufacturer and shall be of size and length and quantity as recommended by the pole manufacturer. Anchor bolts shall be fabricated from hot rolled carbon steel bar and shall have an "L" bend on one end and shall be galvanized a minimum of 12 inches on the threaded end. Manufacturer shall provide bolt circle and bolt projection dimensions with shop drawings.
- F. Poles shall have a base plate welded to the pole utilizing a back-up-ring and full-penetration welded connection.
- G. Provide a one piece base cover to completely cover all foundation hardware. Base Cover shall be of the same material and finish as the pole.
- H. All external surfaces of the pole, base cover, support arms, and luminaires shall be finished in the same material and color. The pole shall be chemically cleaned, rinsed, phosphatized, sealed and dried. An electrostatic application of polyester-power paint shall be applied to all external surfaces. The complete unit shall be oven-baked to form a homogeneous, non-porous surface. The completed finish shall not have any sags, drips, oxidation or runs.

- I. Aluminum Poles: Poles shall be seamless extruded aluminum shaft fully welded to a cast aluminum anchor base assembly. Shaft shall be [round] [square], straight [tapered] and shall meet all requirements of AASHTO Standard Specifications. Pole shall be height as indicated in the Luminaire Schedule.
- J. Luminaires shall be listed and labeled for wet location installation.
- K. The luminaires shall have a NEMA distribution pattern as indicated in the luminaire schedule.
- L. All poles shall be wrapped in a protective material for shipment to the job site.

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. The locations of exterior lighting poles shall be staked out for review and acceptance by the Engineer prior to foundation or conduit rough-in.
- B. Leave luminaires clean at the time of acceptance of the work with every lamp in operation. If luminaires are deemed dirty by the Architect at completion of the work, the Contractor shall clean them at no additional cost.
- C. Level and align luminaires, and locate as shown on the drawings. The final decision as to adequacy of support and alignment, will be given by the Architect. .
- D. Aim luminaires to provide the lighting pattern for which the luminaire is designed and as directed by Engineer.
- E. Manufacturer's labels or monograms shall not be visible after luminaire is installed, but must be included for future reference.
- F. Provide cast-in-place foundations for pole mounted luminaires. Concrete shall be as specified in Division 03. Foundation form shall be as specified. Place anchor bolts in foundation as recommended by manufacturer in the required bolt circle size. Tie reinforcing steel in foundation to the anchor bolts to form a solid cage. Tamp wet concrete as pouring to assure complete coverage below, around and within the cage and form. Hand finish top of foundation to produce a smooth, level surface.
- G. Provide a minimum 10' copper-clad steel ground rod at each pole base. Connect from ground rod to the ground lug in the pole with minimum AWG No. 8 copper conductor.
- H. Pole mounted luminaires shall be installed plumb with luminaires level and with reflector distribution in the direction as indicated on the drawings. Grout around the pole base at the foundation to close all openings. Install pole base cover over all exposed installation hardware.

3.2 WIRING:

- A. Wiring within pole mounted units shall be field installed and shall be the same size and type as the circuit supply conductors, unless a fuse is specified or shown on the drawings.

END OF SECTION

PART 1 GENERAL

1.1 DESCRIPTION

- A. Extend new and relocated fire alarm devices to existing Edwards Model No. 5751B Fire Alarm Control Panel and Bosch / Detection System Model No. DS9471 alarm monitoring communicator. Reuse existing fire alarm devices as noted on contract drawings.
System: Provide all design, equipment, installation, and testing for the existing system expansion herein described.

1.2 LISTING REQUIREMENTS

- A. Component Listing: All fire detection and alarm components furnished under this section shall be UL listed in the Fire Equipment List for FM approved for fire signaling or fire suppression use. All accessory equipment shall be manufactured with UL listed components.

1.3 DOCUMENTATION

- A. Record drawings: Fire alarm shop drawings shall be revised to reflect the accurate as-built condition. Working plans shall show actual and accurate locations and circuit addresses of devices, actual locations of j-boxes and splices, actual routing and fill of conduit or plenum cabling, and actual location of end-of-line devices.
- B. System operation, installation, maintenance, and programming manuals shall be provided.
- C. Shop drawings shall be prepared using AUTOCAD Release 2000 or later version and submitted to the Fire Marshal for approval. The shop drawings will show actual conduit routing, conductors as to be installed, and circuit numbers for each device.
- D. Product data with wiring schematics.
- E. Back-up battery calculations to support operation of system.

1.4 OWNER NOTIFICATION

- A. Contractors shall give owner adequate notification for all fire alarm testing (including fire marshal acceptance testing), programming, and shutdowns.
- B. Technical questions regarding the design, layout, operation, and code requirements for the fire alarm system shall be directed to the current managing fire alarm consultant Metro Safety & Fire, Inc. Phone #503.231.2999.

- C. Prior to connecting any circuits to the active existing fire alarm system, all circuits shall be complete with all specified devices installed and shall be verified free from all open circuits, short circuits, and ground faults. Connection of said circuits shall be coordinated with City of Tigard and fire alarm consultant Metro Safety & Fire, Inc. technical representative.

1.6 QUALITY ASSURANCE:

- A. Equipment shall be approved in accordance with NFPA and IBC requirements and shall be UL listed both in individual components and as a system.
- B. The system supplier shall furnish evidence that there is an experienced and efficient service organization that carries a stock of repair parts for the system to be furnished and that the organization is capable of providing repair service within 24 hours of a trouble call.
- C. The system shall be installed by an electrical contractor experienced in the installation of fire alarm systems and voice communication systems. The services of a technician provided by the control equipment manufacturer shall be provided to supervise installation, adjustment and tests and final connection of the system. All alarm and trouble conditions shall annunciate at the 80-character LCD display at the control panel.

PART 2 PRODUCTS

2.1 INITIATING DEVICES

- A. All area smoke detectors shall match existing manufacturer brand and type.

2.2 ALARM INDICATING APPLIANCES (chimes/horns/bells/strobes)

- A. All alarm indicating appliances shall match existing manufacturer brand and type or otherwise listed and specified to operate with match existing manufacturer brand and type equipment.
- B. All visual indicating devices shall comply with Americans with Disabilities Act (ADA) for flash rate and synchronization.

PART 3 EXECUTION

3.1 WIRING, CIRCUIT ROUTING, AND DEVICE LAYOUT

- A. Circuit routing shall follow the logical layout of the planned riser diagram for that building.

- B. Addressable device circuits, horn/strobe circuits, and door holder circuits shall be run horizontally from a common point on the building fire alarm system riser and shall not ascend or descend to another floor at any point except at the designated fire alarm riser.
 - 1. Audible circuits and strobe circuits shall be installed on separate circuits following the same path and having the end-of-line resistors terminating at the same device. This device shall be labeled EOL.
 - 2. All cabling shall be in accordance to the specified cable found in the wiring schedule of the match existing manufacturer shop drawings.
 - 3. Device layout shall be in compliance with NFPA 72, NFPA 101, and local authority having jurisdiction.
 - 4. The manner of workmanship shall be clean and professional (NEC 70 Article 800-6, ANSI/EIA/TIA 569-1990, and ANSI/EIA/TIA 569-1991). All panels shall be neatly dressed and all cabling secured in place with cable ties.

3.2 LABELING

- A. All cables shall be clearly labeled with circuit type and identifier at the termination of the wire within the fire panel, in the termination enclosure listed above, and at any other junction box used to break out the wiring.

3.3 REMODELS AND RETROFITS

- A. On remodels and retrofits, the owner reserves the right to conduct a pre-demolition walk-through with the contractor to pre-mark, tag, and secure all sensitive cables, boxes and devices.
- B. All fire alarm equipment removed during demolition shall be stored and protected for reuse in construction phase.
- D. Any fire alarm devices found on equipment to be abandoned (i.e. duct detectors on abandoned ducts, refrigerator/freezers being monitored by fire system, suppression panels, etc.) shall be reported to the City of Tigard and Metro Safety & Fire, Inc. technical representative.

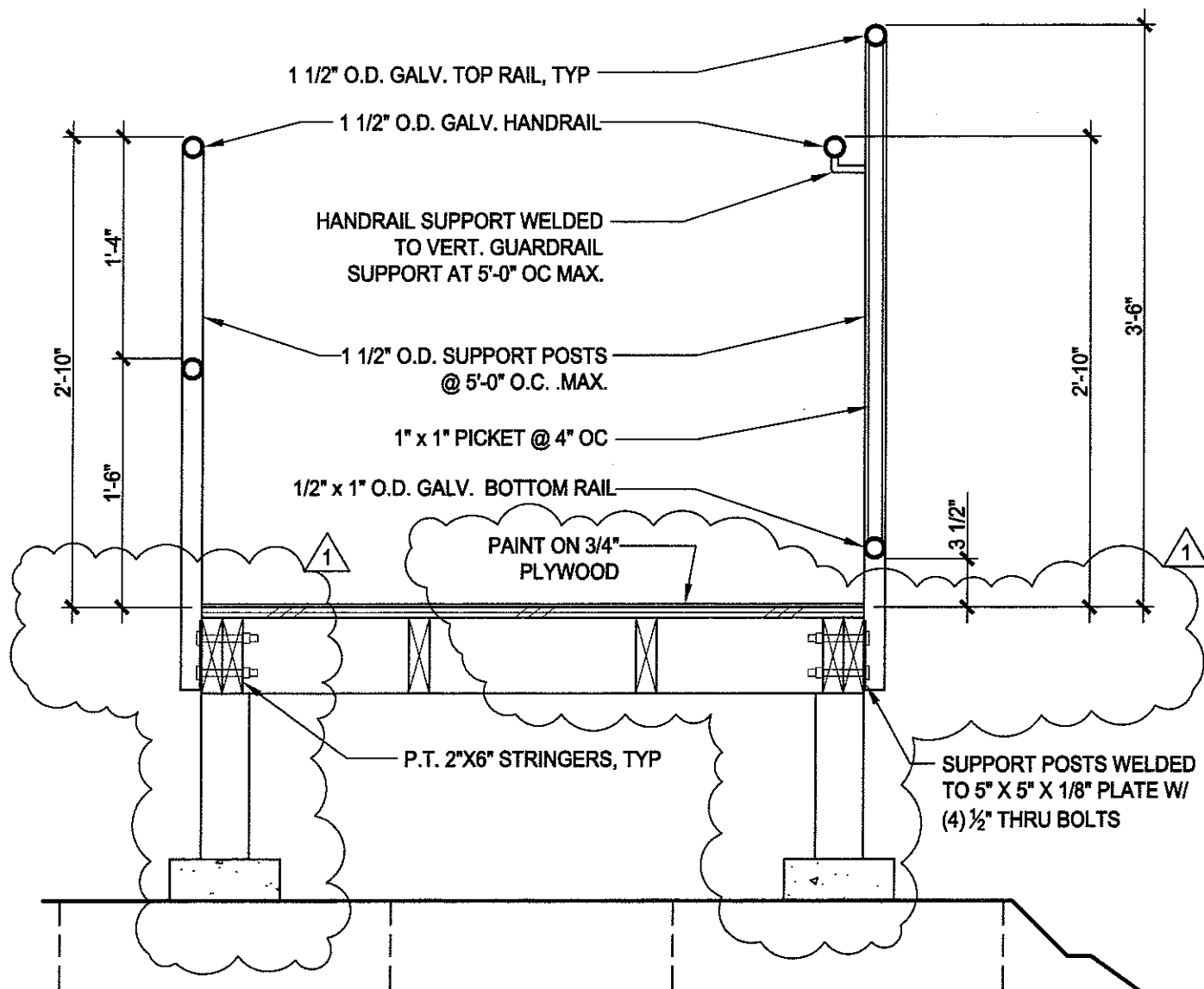
3.4 SUBMITTALS:

- A. The contractor shall submit shop drawings to local Fire Marshal's office for approval before installation is started. The Contractor shall also provide the Owner with complete wiring diagrams, instructions, and maintenance manuals upon acceptance of the installation.

3.5 FIRE ALARM TESTING:

- A. Prior to the acceptance test of the project by the Owner, a factory-trained technician on the equipment installed shall inspect, test and adjust the complete fire alarm system according to NFPA-72, and shall also include the following: Provide a reduced copy of the floor plans (minimum size 11"x17") showing all of the devices, all zones, wiring, and with detector location identification numbers, firing voltages and serial numbers.
 - 1. Test for proper operation of system horn/speaker/strobes.
- B. At completion of visual inspection and installation testing, perform a complete system test as outlined in NFPA 72. Complete NFPA 72 Figure 2-2.2 Certificate of Compliance Form for Fire Alarm Certification and Description (4 pages). Submit three copies of the completed forms to the Architect prior to application for final payment. Include one copy of completed forms in each Operations and Maintenance manual submitted.
- C. The contractor shall perform these tests in the presence of the Owner or the Owner's representative. The Contractor shall repair or replace at his expense any defective devices, equipment or wiring and shall again perform the required testing as determined by the Owner to assure that the system is in compliance with the drawings and specifications.
- D. The cost of any retesting as a result of the failure of the system to operate in accordance with these specifications and/or non-compliance with the drawings or applicable codes shall be paid by the Contractor to the Owner.

END OF SECTION



C2. EXTERIOR RAMP SECTION

SCALE: 1"=1'-0"

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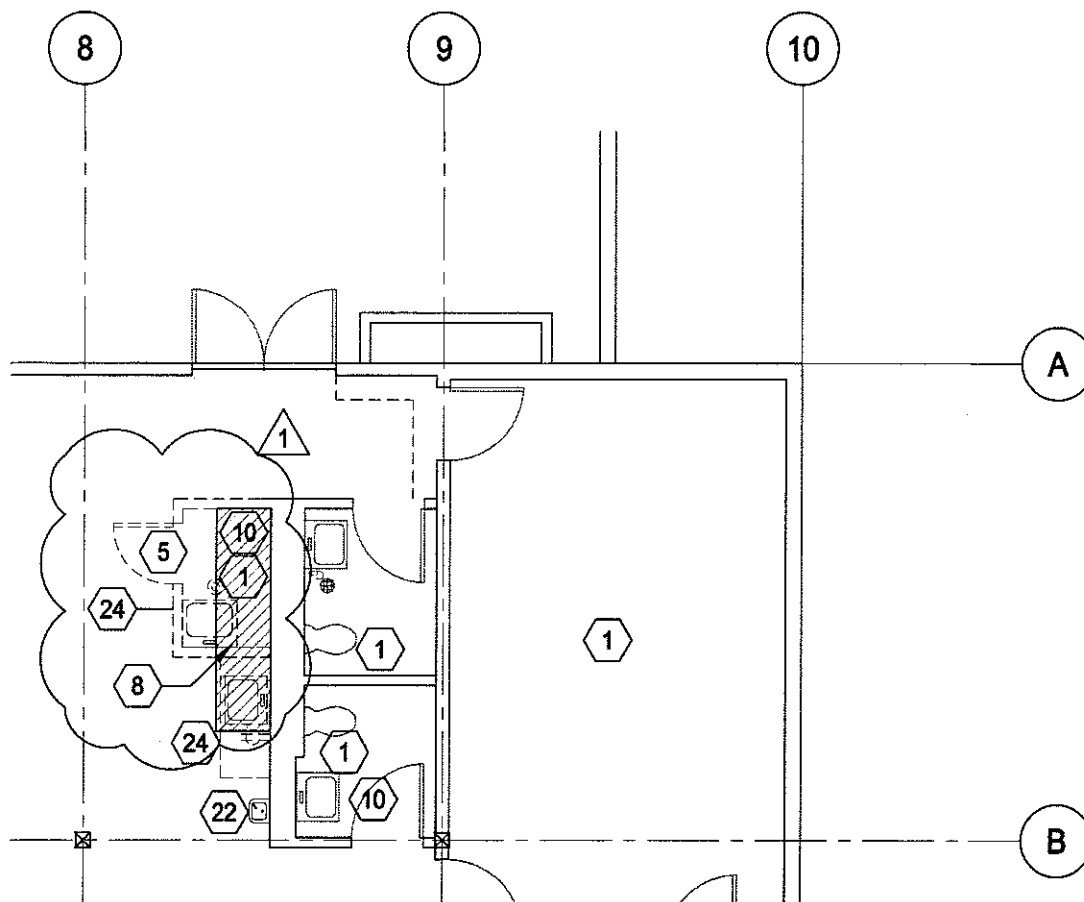
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TIGARD SENIOR CENTER

PROJECT NUMBER: 207037

DATE: 10.08.07

A102-R1

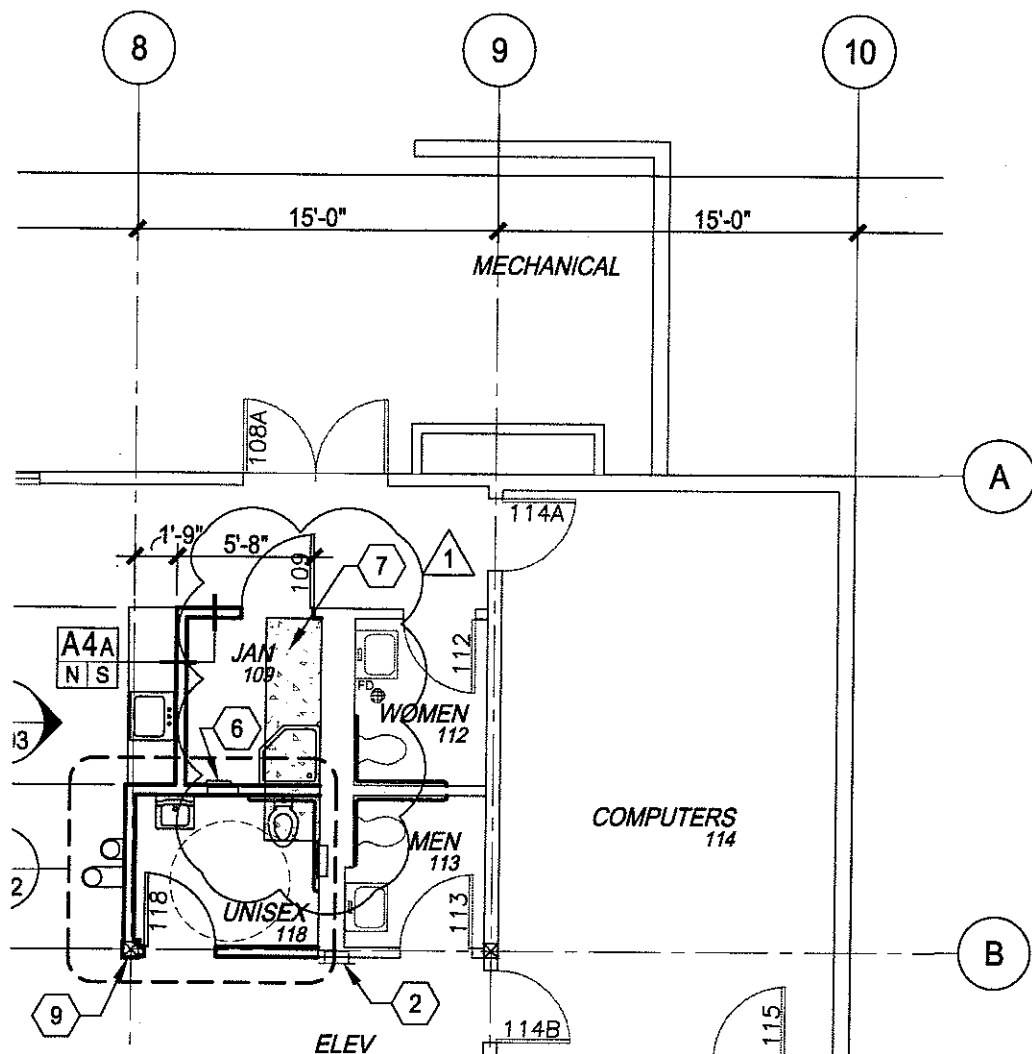


KEY NOTES

- 1 DEMOLISH EXISTING BASE & FLOORING TO SUBSTRATE
- 2 DEMOLISH EXISTING CONCRETE PLANTERS
- 3 REMOVE LIGHT FIXTURE. PATCH AND REPAIR EXISTING CEILING OR REPLACE WITH NEW TO MATCH.
- 4 RELOCATE SWITCHES
- 5 DEMO EXISTING DOOR & FRAME
- 6 DEMO EXISTING WALLS AS SHOWN.
- 7 DEMO WALL FOR NEW OPENING.
- 8 REMOVE EXISTING CONCRETE SLAB THIS AREA

C1. LOWER LEVEL PARTIAL DEMO PLAN

SCALE: 1/8" = 1'-0"

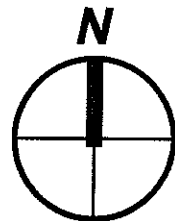


KEY NOTES

- ① INSPECT SUBFLOOR AT AREA BENEATH DISHWASHER. REPLACE DAMAGED SUBFLOOR.
- ② (E) FIRE EXTINGUISHER TO REMAIN
- ③ INFILL WALL TO MATCH EXISTING
- ④ CASED OPENING 5'W X 4'H, SEE STRUCTURAL FOR HEADER. SEE SHT. A203 FOR HEAD DETAIL
- ⑤ 5/8" GYP. BD. OVER EXISTING WALL SHEATHING
- ⑥ MH-1 MOP AND BROOM RACK
- ⑦ NEW CONCRETE SLAB THIS AREA

B1. LOWER LEVEL PARTIAL FLOOR PLAN

SCALE: 1/8" = 1'-0"



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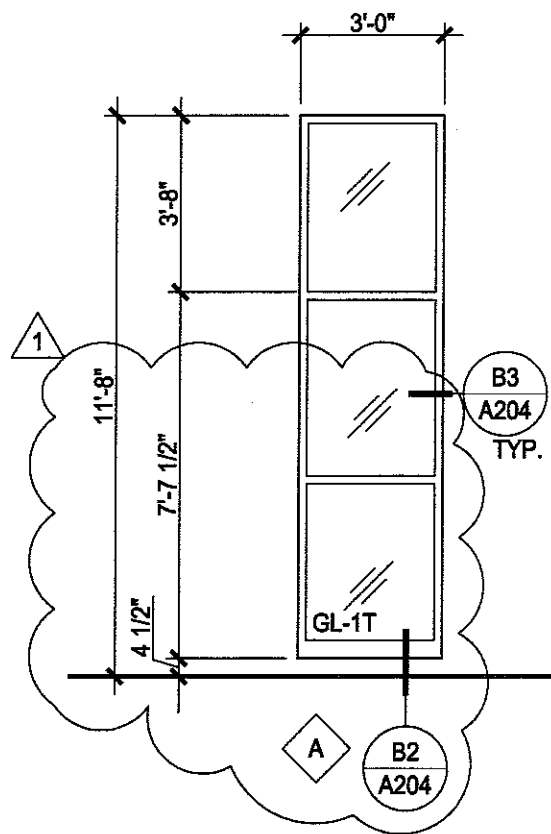
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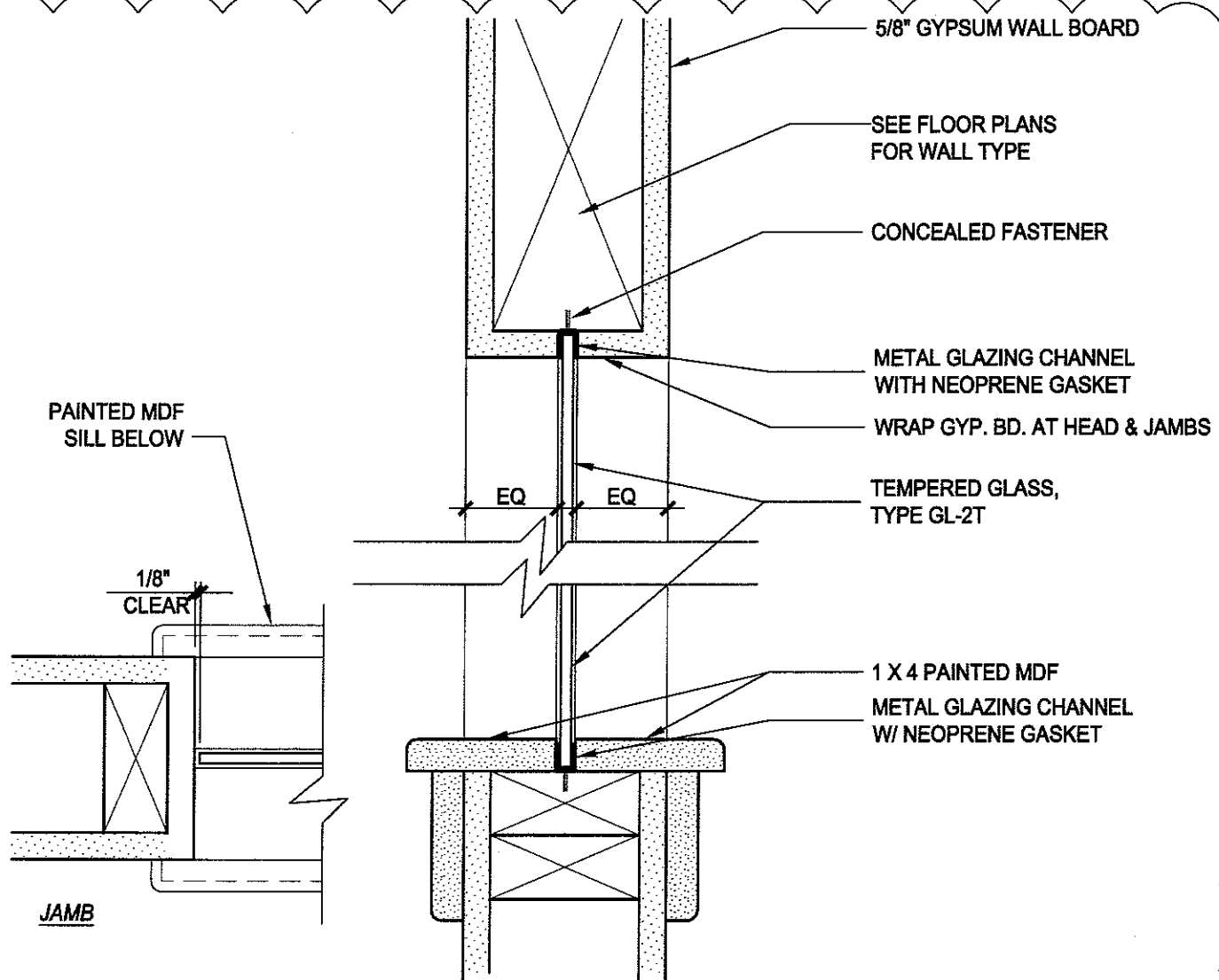
A201-R1

TRS



A2. WINDOW TYPES

SCALE: 1/4" = 1'-0"



C2. INT. WINDOW HEAD/SILL DETAIL

SCALE: 3"=1'-0"

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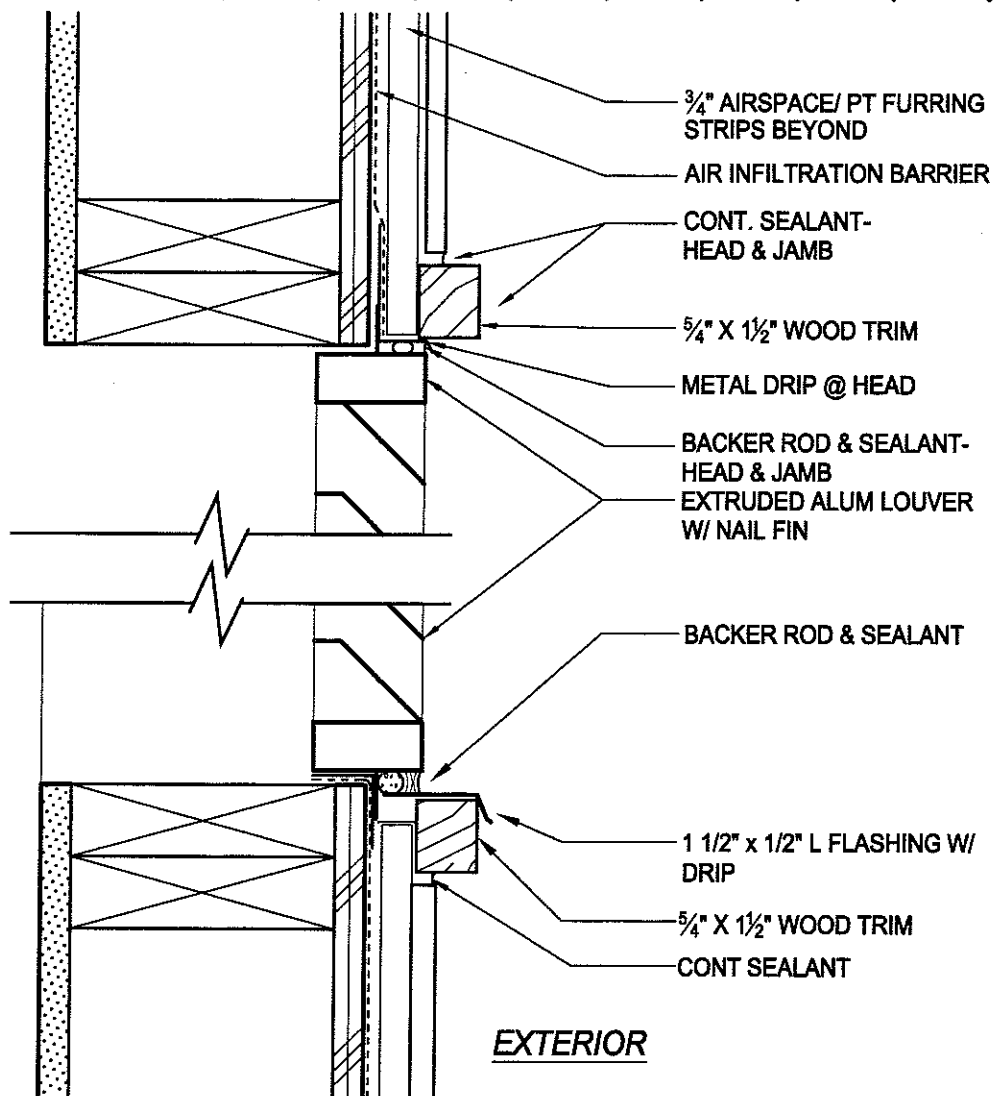
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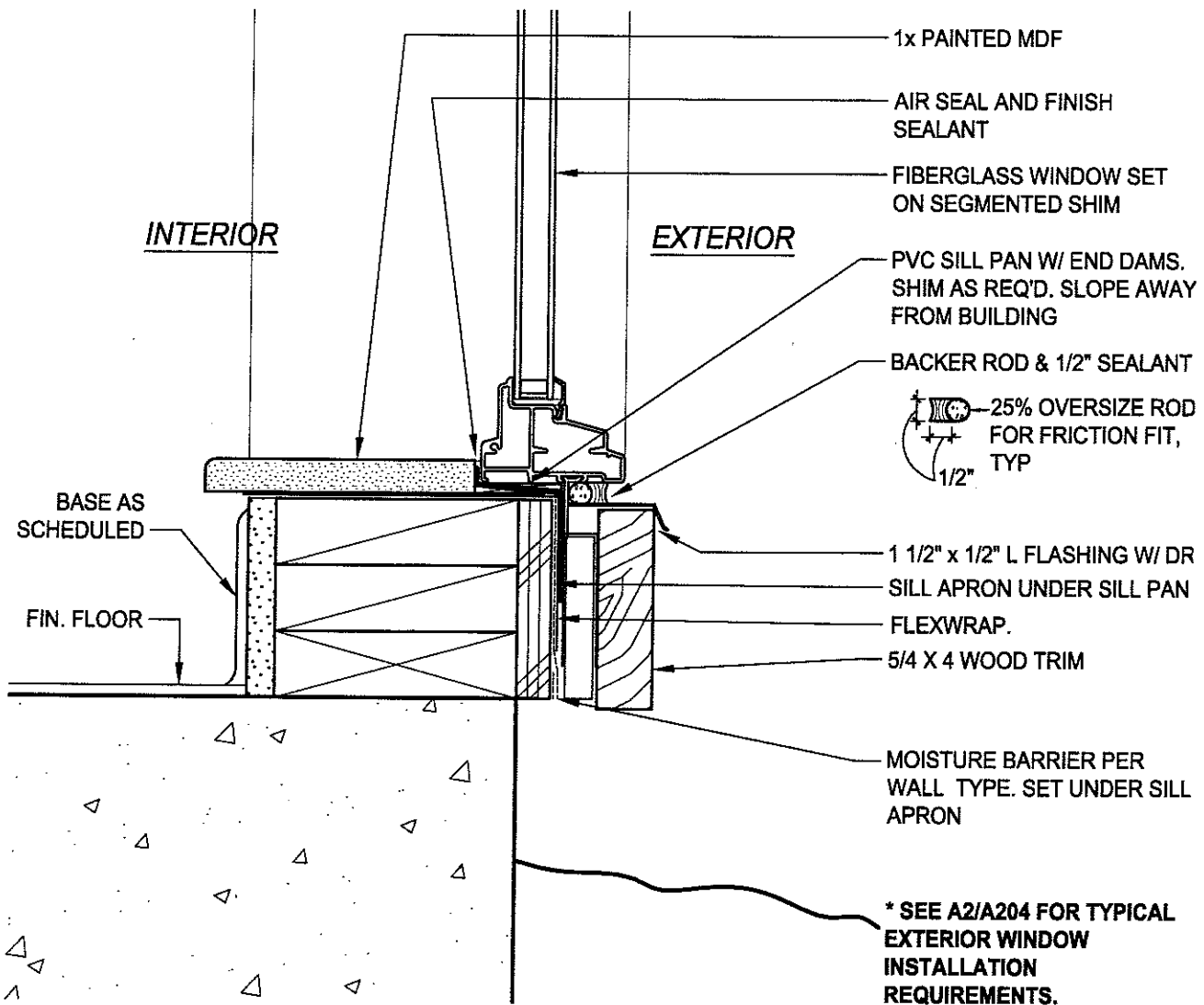
DATE: 10.08.07

A203-R2



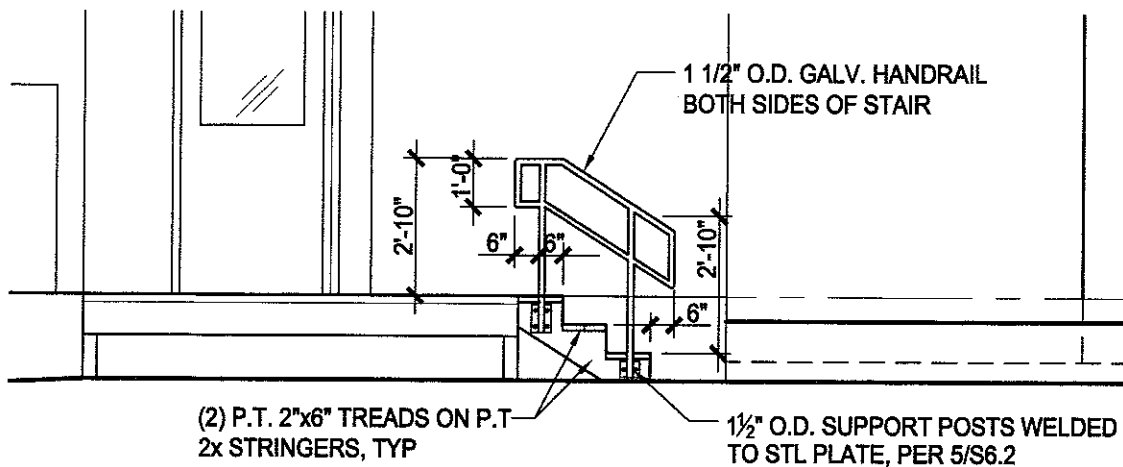
A1. TYPICAL LOUVER HEAD / SILL

SCALE: 3" = 1'-0"



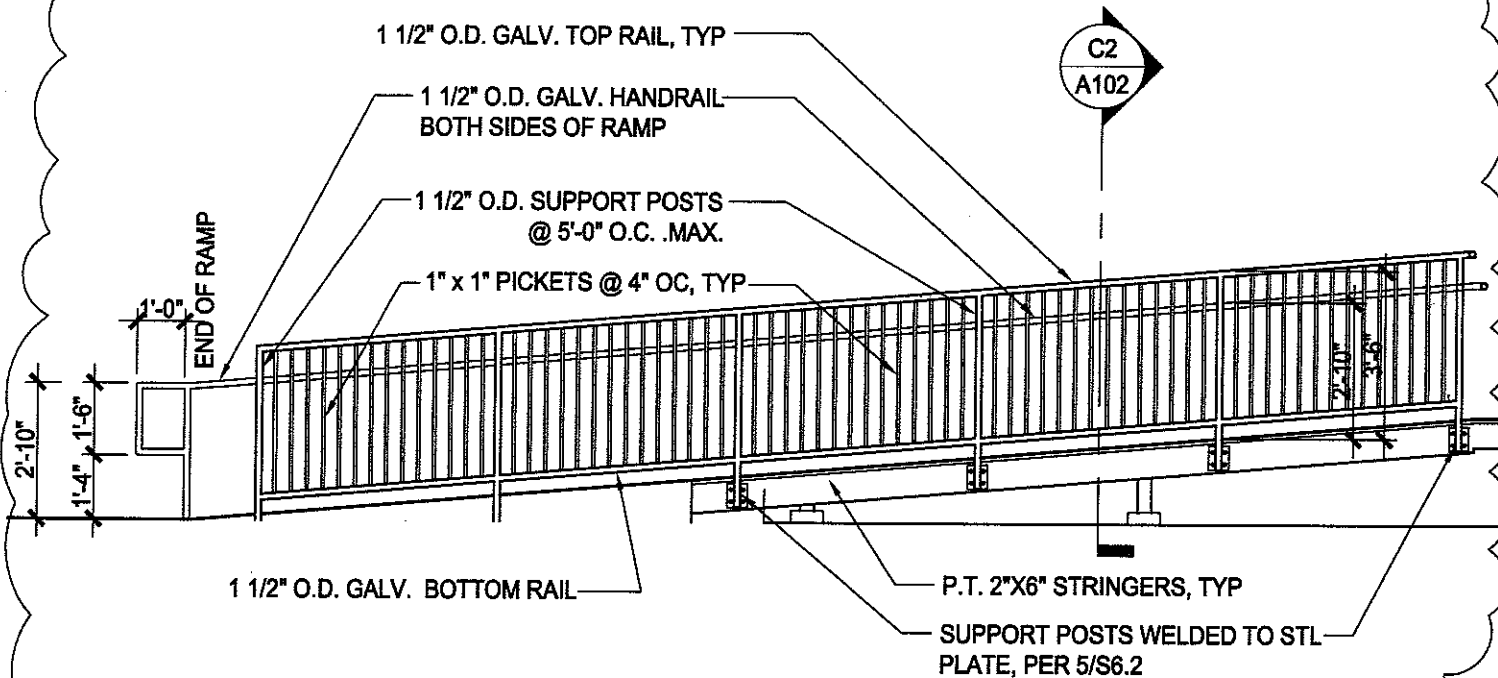
B2. WINDOW SILL @ LIBRARY

SCALE: 3"=1'-0"



A1a. EXT. STAIR ELEVATION

SCALE: 1/4" = 1'-0"



A1b. EXT. RAMP ELEVATION

SCALE: 1/4" = 1'-0"

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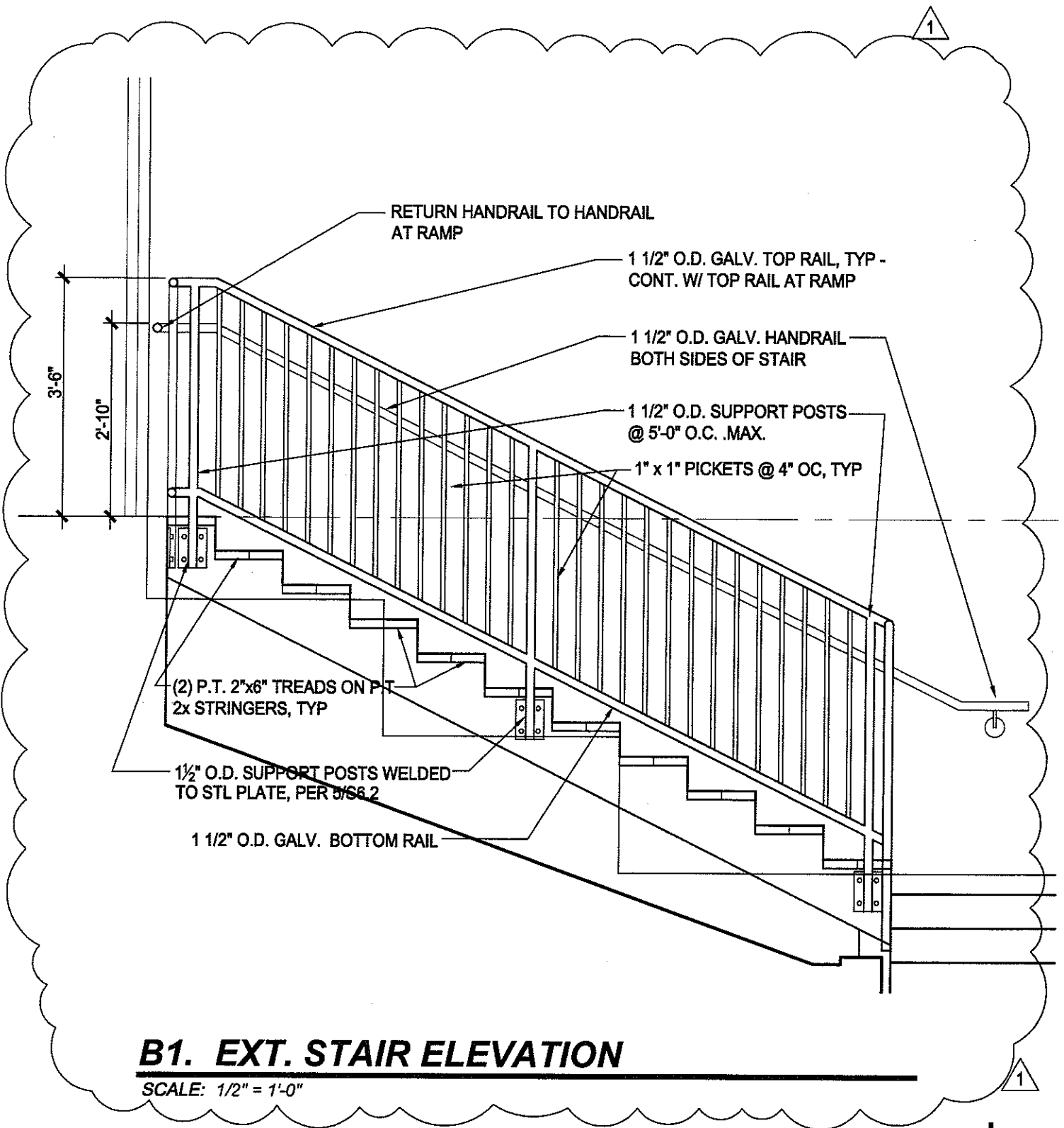
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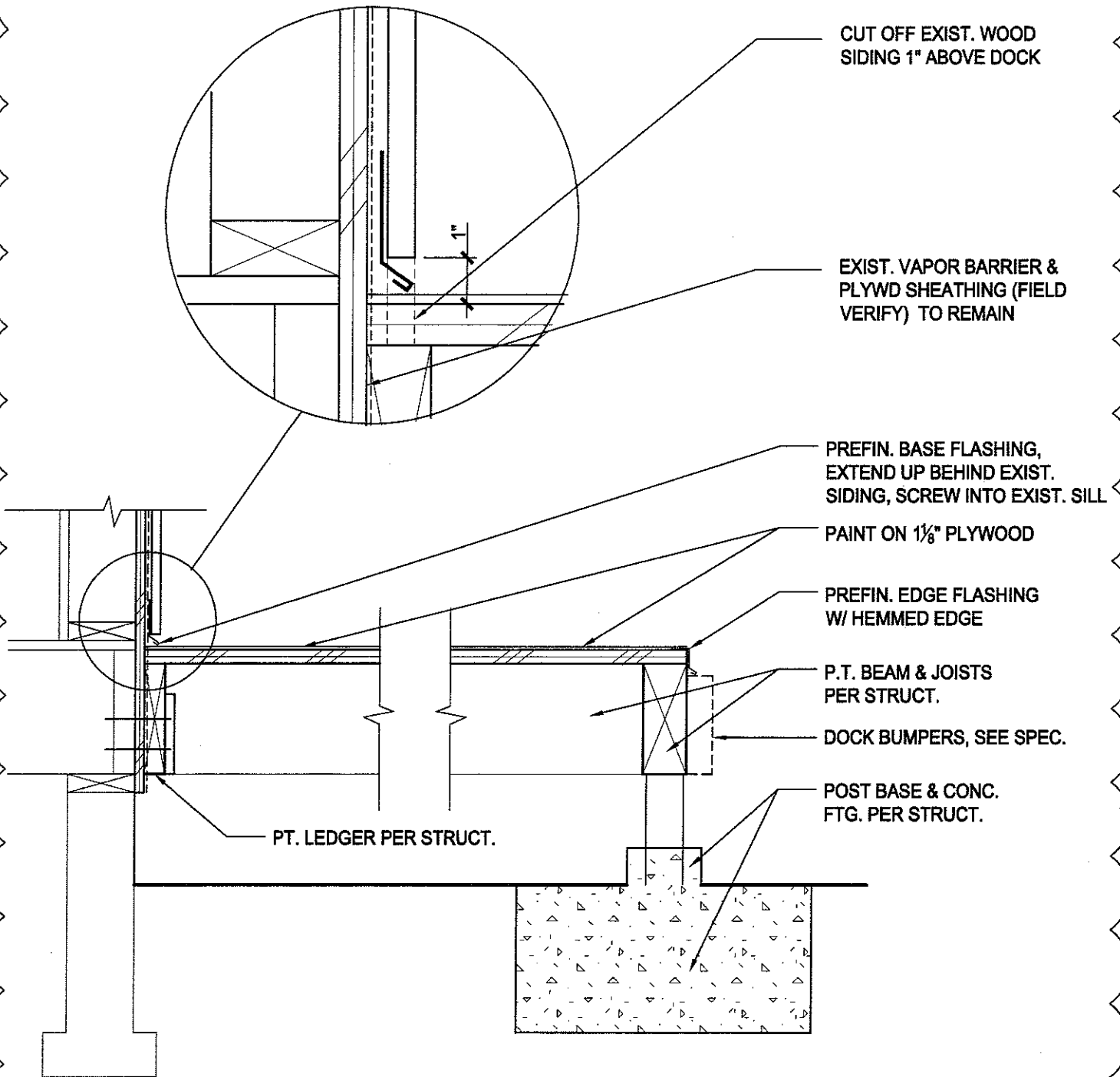
TIGARD SENIOR CENTER

PROJECT NUMBER: 207037

DATE: 10.08.07

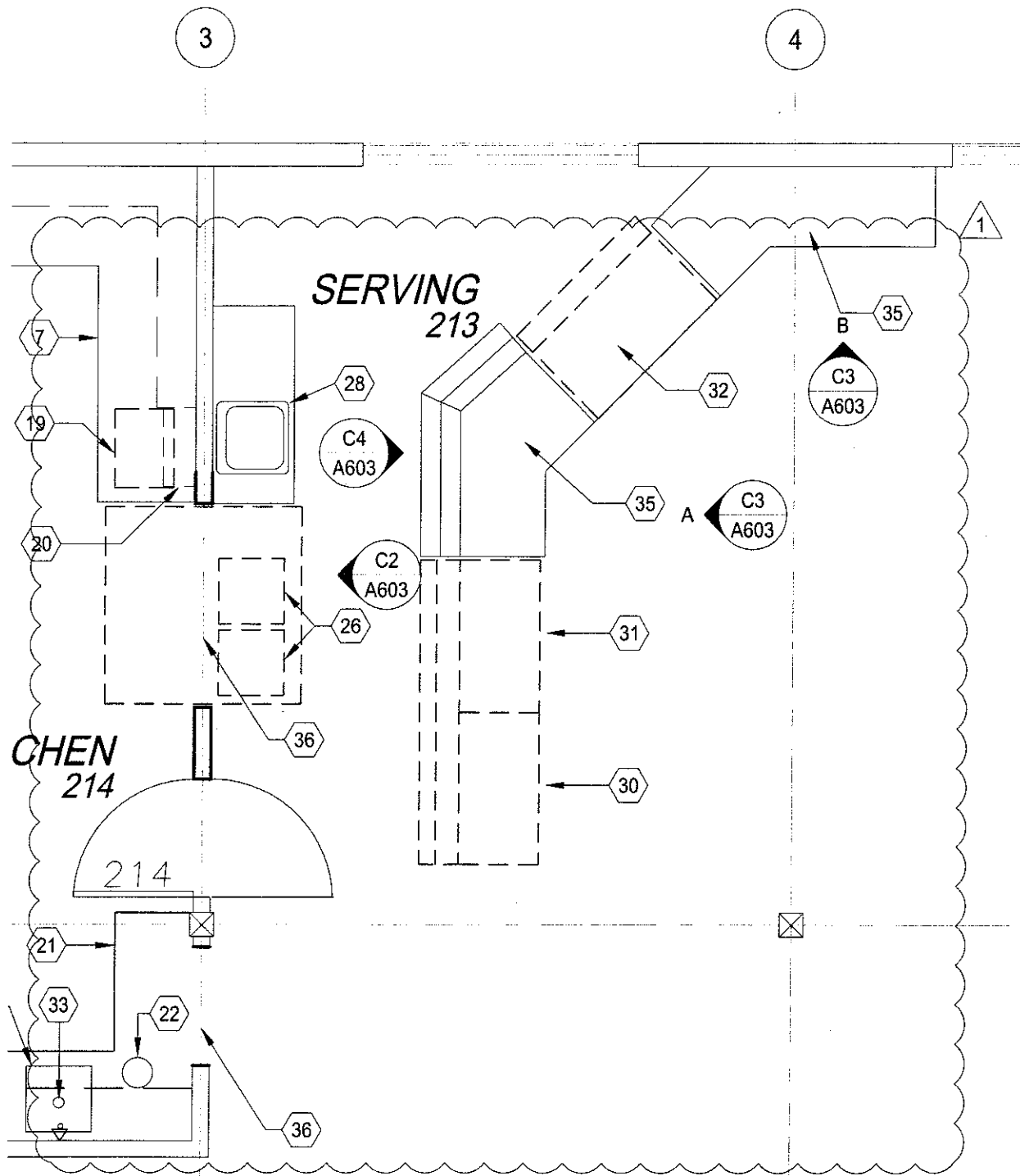
A401-R1





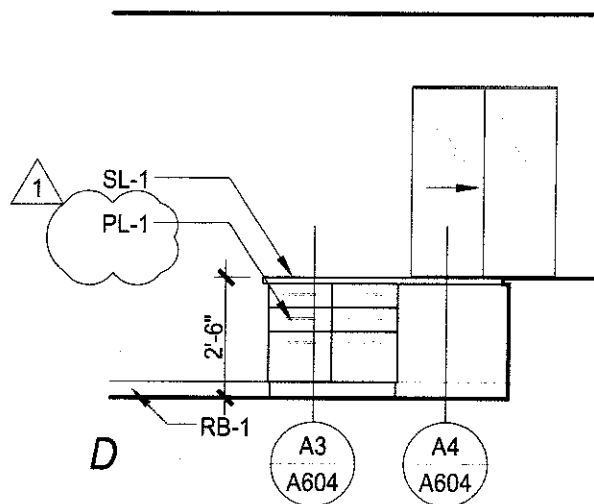
C1. DOCK SECTION

SCALE: 1"=1'-0"



C2. ENLARGED KITCHEN PLAN -PARTIAL

SCALE: 1/4"=1'-0"



B1. RETAIL/ RECEPTION ELEVATIONS

SCALE: 1/4"=1'-0"

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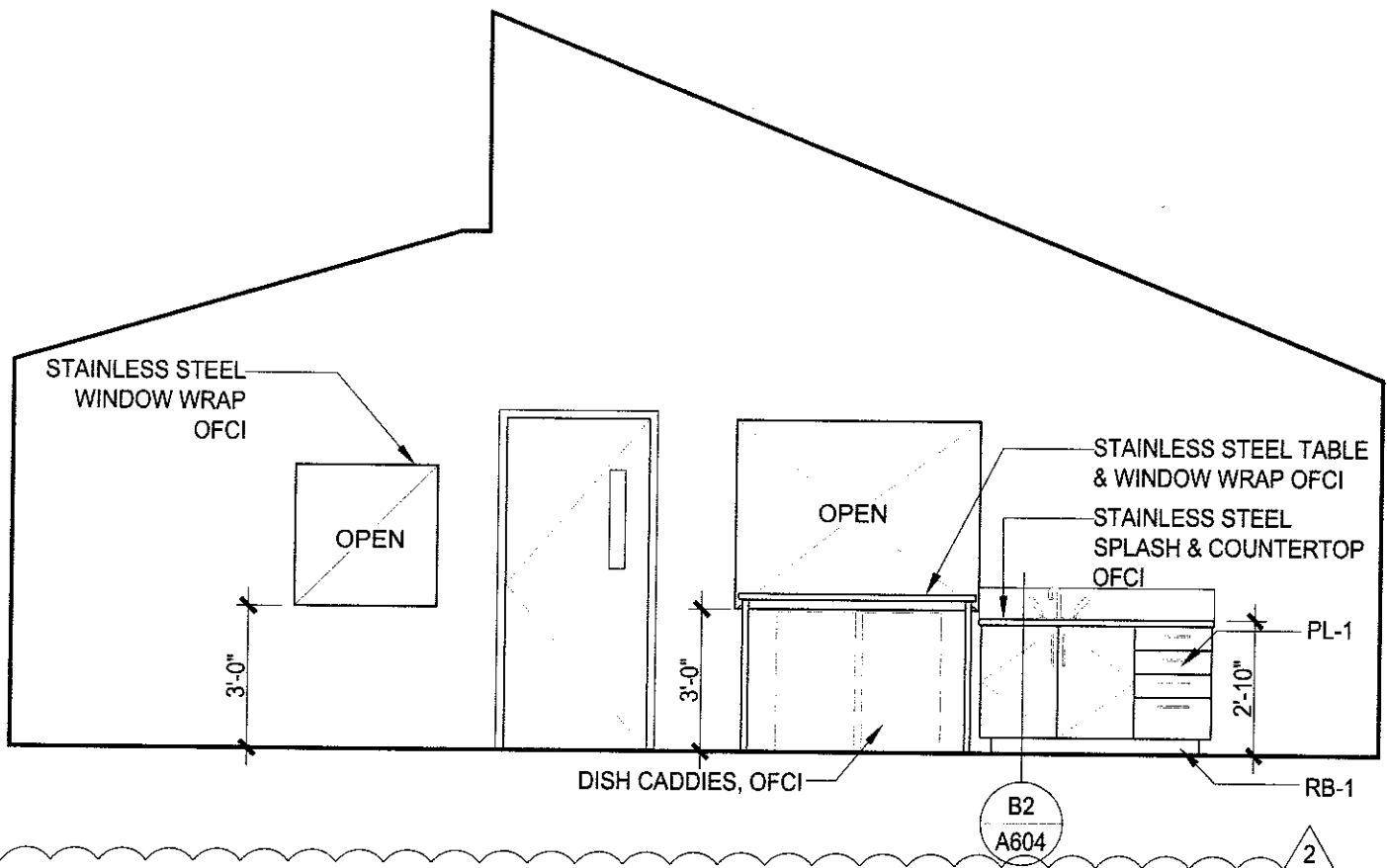
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A603-R1



C2. SERVING AREA ELEVATION

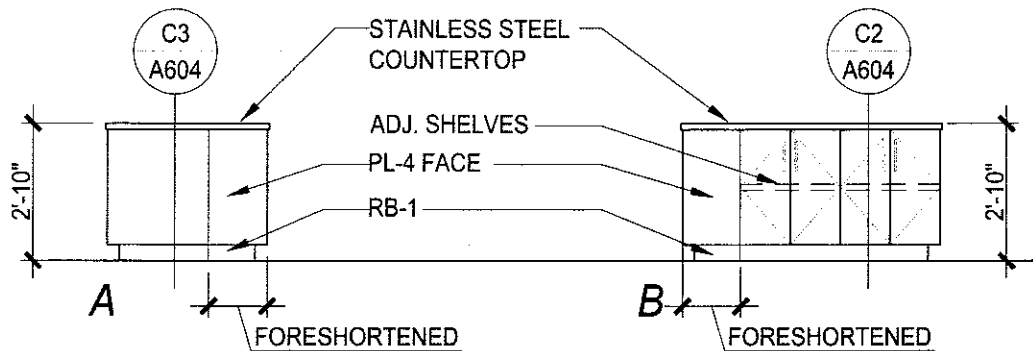
SCALE: 1/4"=1'-0"

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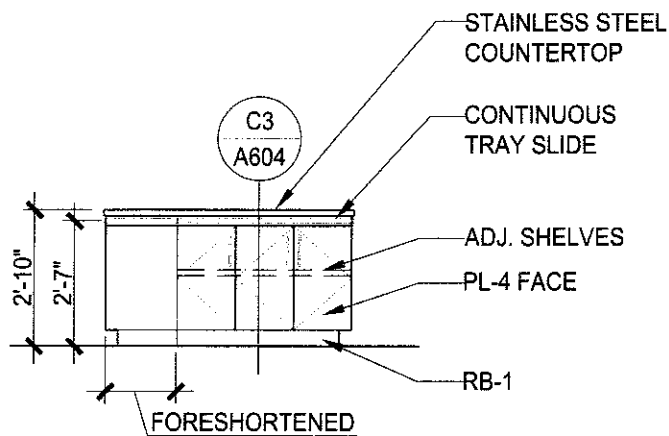
A603-R2



C3. SERVING COUNTER ELEVATION

SCALE: 1/4"=1'-0"

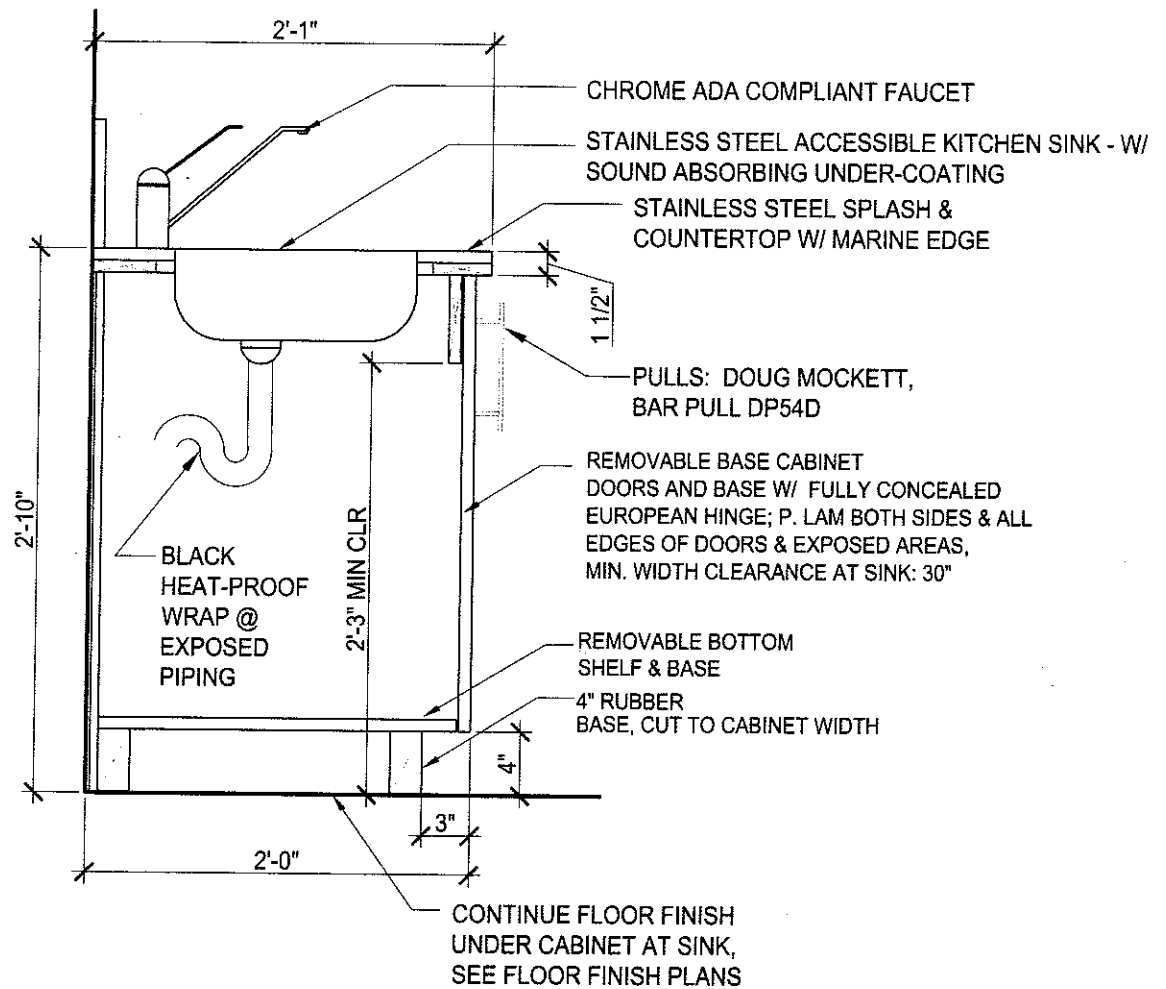
3



C4. SERVING COUNTER ELEVATION

SCALE: 1/4"=1'-0"

3



B2. SERVING AREA DETAIL

SCALE: 1"=1'-0"

1

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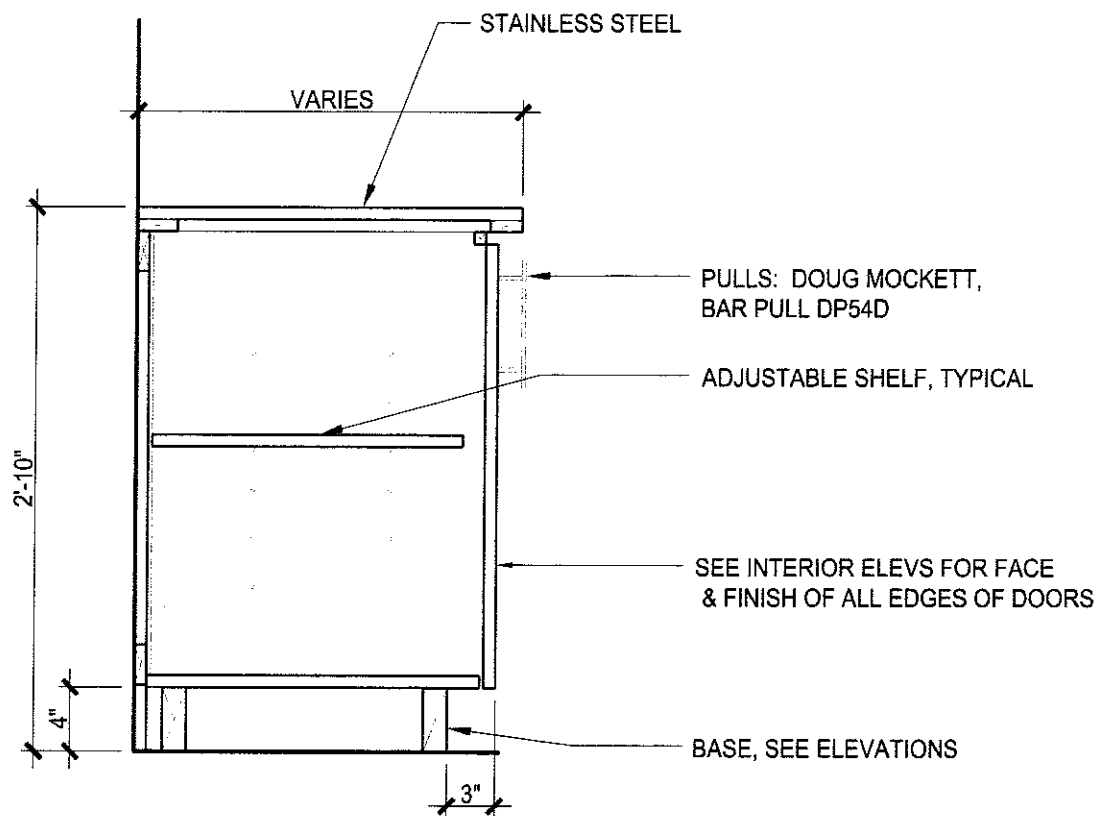
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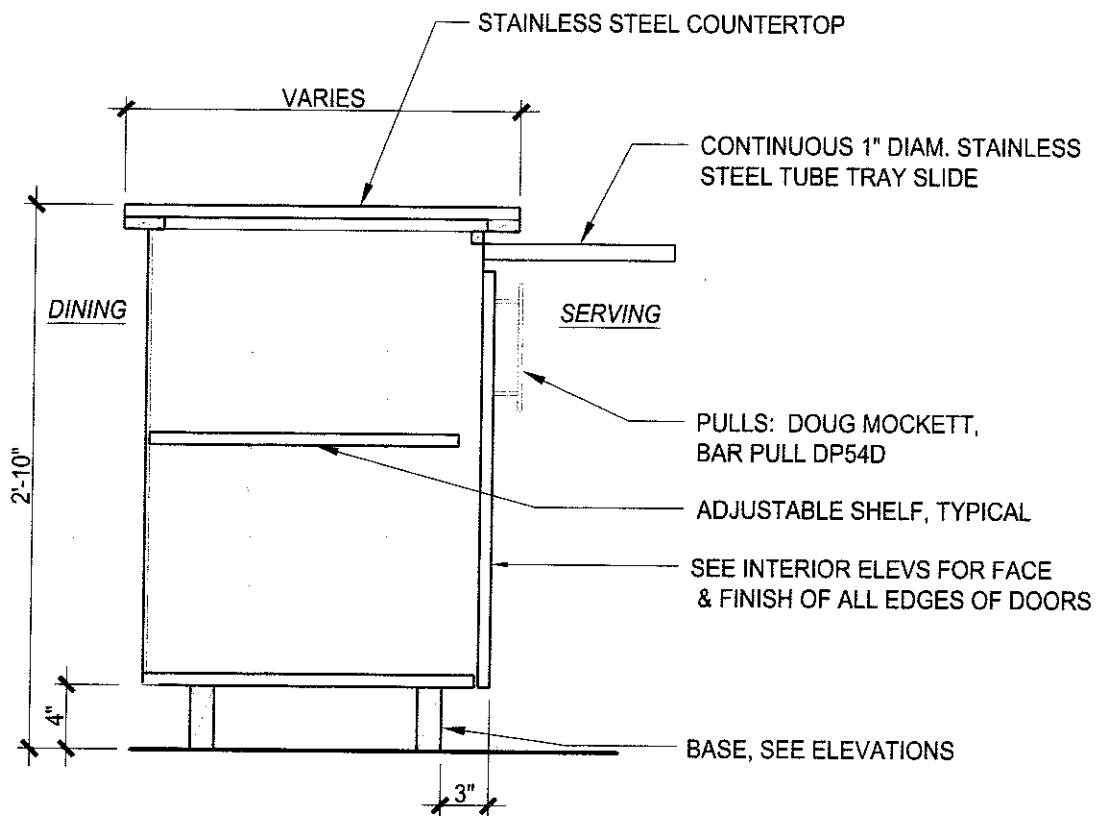
A604-R1



2

C2. SERVING COUNTER

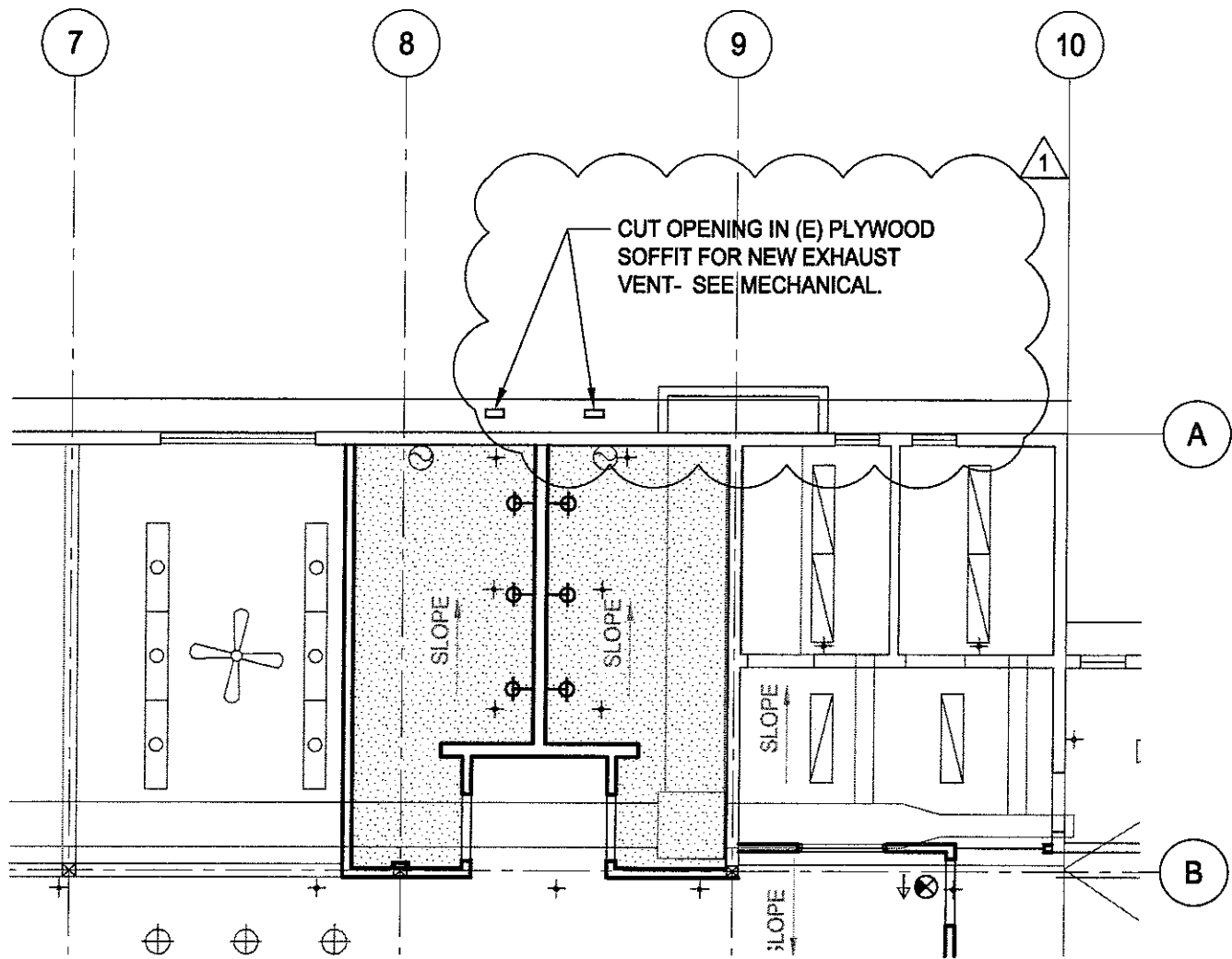
SCALE: 1"=1'-0"



C3. SERVING COUNTER

SCALE: 1"=1'-0"

3



B1. UPPER LEVEL PARTIAL REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

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A701-R1

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FINISH SCHEDULE

ROOM		FLOOR	BASE	WALLS				CEILING	NOTES
No	Name			North	East	South	West	Finish	
103	CRAFTS	LN-1,3	RB-1	P-	P-	P-	P-	P-	1, 6
104	CLOSET	(E)	(E)	P-	P-	P-	P-	P-	
105	MECH	(E)	(E)	P-	P-	P-	P-	P-	
106	ENTRY	RT-	RB-1	P-	P-	P-	P-	P-	
107	ACTIVITY AREA #1	LN-1,2,3	RB-1	P-	P-	P-	P-	P-	1, 7
108	ACTIVITY AREA #2	LN-1,2,3	RB-1	P-	P-	P-	P-	P-	1, 7
109	JAN	LN-5	LN-5	P-	FRP-1, P-	FRP-1, P-	P-	P-	4
110	STORAGE	(E)	(E)	P-	P-	P-	P-	P-	
111	ELEV. LOBBY	LN-1,2,3	RB-1	P-	P-	P-	P-	P-	1, 7
112	WOMEN	LN-5	LN-5	PL-3, P-	PL-3, P-	PL-3, P-	PL-3, P-	P-	2, 3
113	MEN	LN-5	LN-5	PL-3, P-	PL-3, P-	PL-3, P-	PL-3, P-	P-	2, 3
114	COMPUTERS	CP-2	RB-1	P-	P-	P-	P-	P-	
115	STORAGE	CP-2	RB-1	P-	P-	P-	P-	P-	
116	SPRINKLER	(E)	(E)	P-	P-	P-	P-	P-	
117	MECH	(E)	(E)	P-	P-	P-	P-	P-	
118	UNISEX	LN-5	LN-5	PL-3, P-	PL-3, P-	PL-3, P-	PL-3, P-	P-	2, 3
201	LOBBY	WM-1, LN-1,2,3	RB-1	P-	P-	P-	P-	P-	1, 7
202	LIBRARY	CP-3	RB-1	P-	P-	P-	P-	P-	
203	ENTRY	WM-1	RB-1	P-	P-	P-	P-	P-	
204	RETAIL	CP-1	RB-1	P-	P-	P-	P-	(E), P-	1
205	WORK ROOM	CP-1	RB-1	P-	P-	P-	P-	(E), P-	8
206	OFFICE	CP-1	RB-1	P-	P-	P-	P-	(E), P-	8
207	OFFICE	CP-1	RB-1	P-	P-	P-	P-	(E), P-	8
208	OFFICE	CP-1	RB-1	P-	P-	P-	P-	(E), P-	8
209	WOMEN	LN-6	T-1	T-2, P-	P-	P-	T-2,3, P-	P-	2
210	MEN	LN-6	T-1	T-2, P-	T-2,3, P-	P-	P-	P-	2
211	ACTIVITY	CP-3	RB-1	P-	P-	P-	P-	(E), P-	8
212	DINING	(E)	RB-1	P-	P-	P-	P-	(E), P-	8
213	SERVING	(E)	RB-1	P-	P-	P-	P-	(E), P-	8
214	KITCHEN	SV-1	SV-1	P-, FRP-1	P-, FRP-1	P-, FRP-1	P-, FRP-1	P-	5
215	HALLWAY	LN-1,2,3	RB-1	P-	P-	P-	P-	(E), P-	1, 7, 8
216	UTILITY	SV-1	SV-1	P-, FRP-1	P-, FRP-1	P-, FRP-1	P-, FRP-1	P-	4
217	PANTRY	SV-1	SV-1	P-	P-	P-	P-	P-	
218	PREP AREA	SV-1	SV-1	P-	P-	P-	P-	P-	
220	MECH/EQUIP	LN-6	RB-1	P-	P-	P-	P-	P-	
ST1	STAIR	RT-1	RB-1	P-	P-	P-	P-	P-	

NOTES:

1. See floor plans for paint color and flooring locations.
2. See elevations for finishes and their locations.
3. Plastic laminate to 4' high
4. Install FRP-1 above mop sink location.

* See notes

5. Install FRP-1 to 8' AFF
6. LN-1 25%, LN-3 75%
7. LN-1 40%, LN-2 40%, LN-3 20%
8. Existing ceiling tile to remain, paint at gyp. locations only

CP CARPET
(E) EXISTING
FRP FIBERGLASS REINFORCED PANEL
LN LINOLEUM

P PAINT
PL PLASTIC LAMINATE
RT RUBBER TREADS
RB RUBBER BASE

T TILE
WD WOOD FLOOR
WM WALK OFF MAT

A802-R1

FINISH LEGEND

MATERIAL	CODE	MANUFACTURER/STYLE	LOCATION
Carpet	CP-1	Interface Carpet Tile Entropy, 7507 Change	Offices, Reception
	CP-2	Interface Carpet Tile Kamala, 2946 Rice Wine	Computer Room
	CP-3	Interface Carpet Tile Equator, 5475 Mist	Library
Fiberglass Reinforced Panel	FRP-1	Fiberglass Reinforced Panel Glasboard, 48 Pearl Gray	Kitchen
Linoleum	LN-1	Forbo Marmoleum Dual Linoleum Tile 713 Calico	Activity Room
	LN-2	Forbo Marmoleum Dual Linoleum Tile 607 White Marble	Activity Room
	LN-3	Forbo Marmoleum Dual Linoleum Tile 621 Dove Grey	Dining and Lobby
	LN-5	Forbo Vivace Sheet Linoleum 3414 Aurora Hour Heat Weld 6" Self Cove Base	Lower Level Restrooms & Jan
	LN-6	Forbo Fresco Sheet Linoleum 3871 Silver Birch Heat Weld	Upper Level Restrooms
Paint	P-1	Benjamin Moore Color Preview OC-1 Natural Wicker	General
	P-2	Benjamin Moore Color Preview HC-52 Ansonia Peach	Accent
	P-3	Benjamin Moore Color Preview AC-11 Sierra Ridge	Accent
	P-4	Benjamin Moore Color Preview HC-92 Wheeling Neutral	Accent
	P-5	Benjamin Moore Color Preview 2111-60 Barren Plain	Accent
Plastic Laminate	PL- 1	Nevamar Herbal Allusion Textured AL-5-IT	Activity Rm Vertical Surface
	PL-2	Formica 3698-58 Beluga Beige	Activity Rm Horizontal Surface

A802-R2

	PL-3	Nevamar	Lower Level Restroom Walls
		Pure Spun Yarn Textured YSN002T	
	PL-4	Wilsonart	Serving Area Vertical Surface
		Twilight Zephyr 4845-60	
	PL-5	Wilsonart	Upper Level Restroom
		7938-38 New Age Oak	
Rubber Treads	RT-1	Johnsonite Rubber Stair Treads	
		w/ Integrated Riser for Visually Impaired	
		VIRTR-SQ	
		129 Silk and 28 Medium Grey	
Rubber Base	RB-1	Johnsonite 4"	
		29 Moon Rock	
Solid Surface	SL-1	Avonite	Retail Desk Work Surface
		Tusk K3-8340	
Sheet Vinyl	SV-1	Forbo	Kitchen, Serving Area
		TractionStep B202	
Tile	T-1	United Tile	Upper Restroom Base
		Royal Mosa Global	
		16630	
	T-2	United Tile	Upper Restroom Walls
		Royal Mosa Global	
		16630	
	T-3	United Tile	Upper Restroom Walls Accent
		Royal Mosa Global	
		16680	
	T-4	United Tile	Upper Restroom Backsplash
		Pastel Mix Mosaic Glass	
	T-5	Pental Tile	Fireplace Field
		Feel, Loft	
	T-6	Tile TBD	Fireplace Accent
	T-7	Pental Tile	Fireplace Hearth
		Feel, Loft	
Walk Off Mat	WM-1	Coral Brush Activ	Entries
		Metal Grey 5925	

SPECIAL INSPECTION PROGRAM

1. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
2. PRIOR TO THE BEGINNING OF CONSTRUCTION, THE ARCHITECT (OR ENGINEER) SHALL CALL A PRE-CONSTRUCTION MEETING WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS TO REVIEW THE SPECIAL INSPECTION REQUIREMENTS.
3. DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:
 - A. ACKNOWLEDGE THE SPECIAL INSPECTION PROGRAM AND THE SPECIAL INSPECTION AND TESTING AGREEMENT, PROVIDED BY LOCAL JURISDICTION.
 - B. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND TO THE BUILDING OFFICIAL.
 - C. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, CONTRACTOR AND (OTHER DESIGNATED PARTIES), IN A TIMELY MANNER, AS ESTABLISHED AT THE PRE-CONSTRUCTION MEETING.
 - D. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE OSSC.
4. DUTIES OF THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
 - A. NOTIFY THE SPECIAL INSPECTOR THAT THE WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE SUCH INSPECTION.
 - B. ALL WORK REQUIRING SPECIAL INSPECTION SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
 - C. PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT PLANS AND SPECIFICATIONS AT THE JOBSITE.
 - D. MAINTAIN AT THE JOBSITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.
5. DEFINITIONS:
 - A. CONTINUOUS INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION.
 - B. PERIODIC INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT THE WORK REQUIRING SPECIAL INSPECTION IS IN CONFORMANCE WITH APPROVED PERMIT PLANS AND SPECIFICATIONS.

STRUCTURAL OBSERVATION

1. THE OWNER HAS EMPLOYED THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN, TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN SECTION 220. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL. THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED PER IBC SECTION 1702.
2. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS PRIOR TO:
 - A. PRIOR TO CONCRETE POUR.
 - B. PRIOR TO COVER OF SHEATHING / DECKING.
 - C. PRIOR TO COVER OF FRAMING.

1704.7 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	-
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

REQUIRED SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE - 1707				
SYSTEM or MATERIAL	INSPECTION			REMARKS
	FREQUENCY		CODE or STANDARD REFERENCE	
	Continuous	Periodic		

WOOD					
CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLDOWNS		X		1707.3	ALL CONNECTIONS VISUALLY INSPECTED
FASTENING OF DIAPHRAGM AND SHEAR WALL SHEATHING		X			
MECHANICAL AND ELECTRICAL					
COMPONENT CERTIFICATES OF COMPLIANCE		X		1708.5	MANUFACTURER'S CERTIFICATE OF COMPLIANCE REPORTS

1704.4 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
4. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 5.11-5.13	1913.9
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 6.1.1	-

MISC SPECIAL INSPECTIONS				
SYSTEM or MATERIAL	INSPECTION			REMARKS
	FREQUENCY		CODE or STANDARD REFERENCE	
	Continuous	Periodic		

POST INSTALLED CONCRETE ANCHORS					
INSTALLATION	X		ICC EVALUATION REPORT	1703.4.2 1704.13.3	SPECIAL INSPECTIONS APPLY TO ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS, HOLE DIMENSIONS, COMPLIANCE WITH DRILL BIT REQUIREMENTS, CLEANLINESS OF THE HOLE AND ANCHOR, ADHESIVE EXPIRATION DATE, ANCHOR/ADHESIVE INSTALLATION, ANCHOR EMBEDMENT, AND TIGHTENING TORQUE
WOOD					
FABRICATION OF PREFABRICATED STRUCTURAL ELEMENTS		X		1704.2	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STRUCTURAL PANELS AND NAILS FOR DIAPHRAGMS AND SHEAR WALLS WITH EDGE NAILING ≤4"		X		1704.6.1	
VERIFICATION OF FRAMING SIZE AT DIAPHRAGM AND SHEAR WALL PANEL EDGES WITH EDGE NAILING ≤4"		X			

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SK-02

GEOTECHNICAL				
PREPARED SUBGRADE DENSITY	EACH 2000 SF OF PREPARED SUBGRADE	ASTM D2922 OR ASTM D1556	1704.7.1	PER GEOTECHNICAL REPORT
FILL IN-PLACE DENSITY	EACH 2000 SF OF EACH LIFT PLACED EACH DAY	ASTM D2922 OR ASTM D1556	1704.7.3	PER GEOTECHNICAL REPORT
CONCRETE				
CONCRETE STRENGTH	EACH 150 CY NOR LESS THAN EACH 5000 SF OF SLAB OR WALL PLACED EACH DAY	ASTM C39	1704.4 1905.6	
CONCRETE SLUMP		ASTM C143		
CONCRETE AIR CONTENT		ASTM C231		
CONCRETE TEMPERATURE		ASTM C1064		

REQUIRED TESTING for SEISMIC RESISTANCE SPECIAL INSPECTIONS				
SYSTEM or MATERIAL	TESTING			REMARKS
	FREQUENCY	CODE or STANDARD REFERENCE	IBC CODE REFERENCE	

MECHANICAL AND ELECTRICAL				
COMPONENT TESTING INCLUDING MOUNTING SYSTEMS OR ANCHORAGE IF CERTIFICATES OF COMPLIANCE ARE NOT AVAILABLE			1708.5	

PLUMBING FIXTURE SCHEDULE 2

FIXTURE	TYPE	DESIGN BASIS	DESCRIPTION
FD1	FLOOR DRAIN	J.R. SMITH DX2005A	FLOOR DRAIN WITH DUCO CAST IRON BODY WITH 4" WIDE FLANGE AND SECONDARY FLASHING FLANGE, COLLAR, AND ADJUSTABLE ROUND BRONZE STRAINER HEAD, SEDIMENT BUCKET, NO-HUB OUTLET, NICKEL-BRONZE STRAINER, VANDAL-PROOF SCREWS.
FD2	FLOOR DRAIN	J.R. SMITH 2220	FLOOR DRAIN WITH DUCO CAST IRON BODY WITH FLASHING, COLLAR, ROUND BRONZE STRAINER HEAD, SEDIMENT BUCKET, NICKEL BRONZE TOP, TRAP PRIMER CONNECTION, NO-HUB OUTLET AND VANDAL PROOF GRATE. TAP AND THREAD BUCKET AND GRATE TO ATTACH TO DRAIN BODY.
FS1	FLOOR SINK	J.R. SMITH DX3001	SANI-CEPTOR, 12" SQUARE TOP WITH WIDE FLANGE, SS TOP RECEPTOR, SS 1/2 GRATE, BOTTOM DOME STRAINER.
RD1	ROOF DRAIN	J.R. SMITH 1320Y	ROOF DRAIN WITH DUCO CAST IRON BODY, FLASHING CLAMP, SUMP RECEIVER, UNDERDECK CLAMP, AND NO-HUB OUTLET.
OD1	OVERFLOW DRAIN	J.R. SMITH 1320Y-WD02	OVERFLOW DRAIN WITH DUCO CAST IRON BODY, FLASHING CLAMP, SUMP RECEIVER, UNDERDECK CLAMP, 2-INCH WATER DAM, AND NO-HUB OUTLET.
ON1	OVERFLOW NOZZLE	J.R. SMITH 1770	DOWNSPOUT NOZZLE, NICKEL-BRONZE.
WHA-1	WATER HAMMER ARRESTER	PRECISION PLUMBING PRODUCTS SC-500	1" (PDI SIZE C) WATER HAMMER ARRESTER.
FCO	FLOOR CLEANOUT	J.R. SMITH 4020	ADJUSTABLE FLOOR CLEANOUT, DURA COATED CAST IRON BODY, WITH ROUND SCORIATED SECURED NICKEL BRONZE TOP, ADJUSTABLE TO FINISHED FLOOR.
GCO	GRADE CLEANOUT	J.R. SMITH 4111	ADJUSTABLE FLOOR CLEANOUT, DURA COATED CAST IRON BODY, WITH EXTRA HEAVY DUTY ROUND SCORIATED SECURED NICKEL BRONZE TOP, ADJUSTABLE TO FINISHED GRADE.
GT-1	GREASE TRAP	J.R. SMITH 8035	INTERCEPTOR WITH MFR FLOW RESTRICTOR FITTING, ACID RESISTANT COATING INSIDE AND OUTSIDE, ALUMINUM COVER.

PROVIDE MODEL NUMBERS INDICATED, OR EQUIVALENT.

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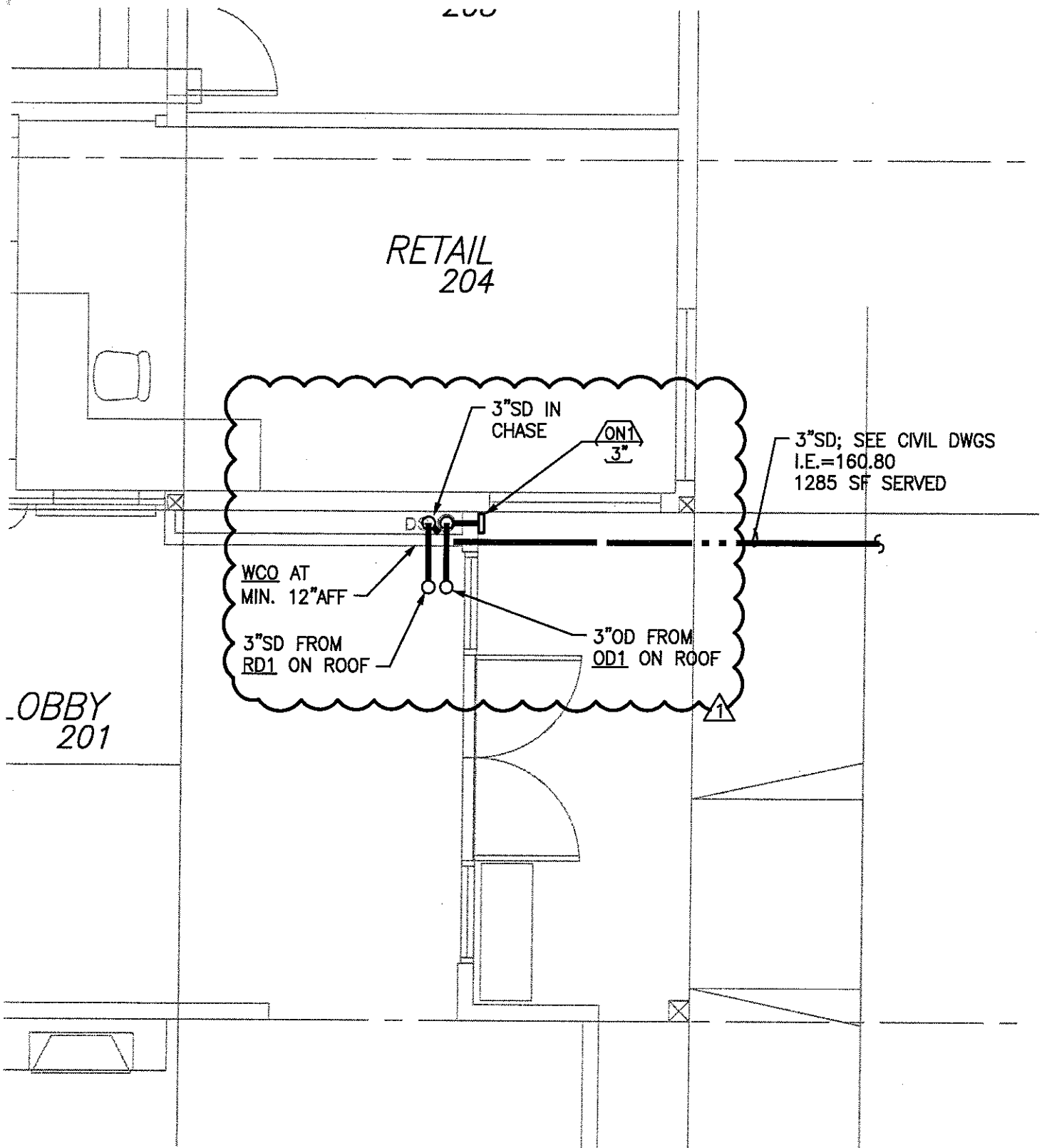
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PL1.0-R1



PARTIAL WASTE & VENT PLAN - UPPER LEVEL - EAST



1
PL2.1b

SCALE: 1/4" = 1'-0"

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FANS													
TAG NO.	TYPE	AIR FLOW (CFM)	CONTROLLED BY	DESIGN BASIS		DRIVE TYPE	EXT STATIC (IN W.C.)	MOTOR			SONES AT 0.1" Pa	VOLTAGE	NOTES
				MANUF	MODEL			WATTS	AMPS	HP			
EF1	CEILING	150	Switched With Lights	GREENHECK	SP-A250	DIRECT	0.38	83	-	-	2.7	115/1	1-3
EF2	CEILING	150	Switched With Lights	GREENHECK	SP-A250	DIRECT	0.38	83	-	-	2.7	115/1	1-3
EF3	CEILING	75	Switched With Lights	GREENHECK	SP-B110	DIRECT	0.38	80	-	-	1.5	115/1	1-2
EF4	CEILING	50	Switched With Lights	GREENHECK	SP-B110	DIRECT	0.38	80	-	-	1.5	115/1	1-2

NOTES:

1. VERIFY ELECTRICAL VOLTAGE PRIOR TO PLACING ORDER.
2. PROVIDE INTEGRAL BACKDRAFT DAMPER.
3. PROVIDE WITH EAVE ELBOW DISCHARGE ACCESSORY.

LOUVERS									
TAG NO.	TYPE	DESIGN BASIS		WIDTH (IN)	HEIGHT (IN)	VOLUMETRIC FLOW RATE (CFM)	FREE AREA (SF)	FREE AREA VELOCITY (FPM)	NOTES
		MANUF	MODEL						
L-1	EXTRUDED ALUMINUM	GREENHECK	ESJ-202	20	12	275	0.38	795	1, 2
L-2	EXTRUDED ALUMINUM	GREENHECK	ESJ-202	14	18	235	0.51	461	1, 2

NOTES:

1. LOUVER SHALL HAVE MAXIMUM 0.1 INCH W.C. AIR PRESSURE DROP AT 795 FPM FREE AREA VELOCITY.
2. LOUVER SHALL HAVE BEGINNING POINT OF WATER PENETRATION AT 668 FPM FREE AREA VELOCITY.

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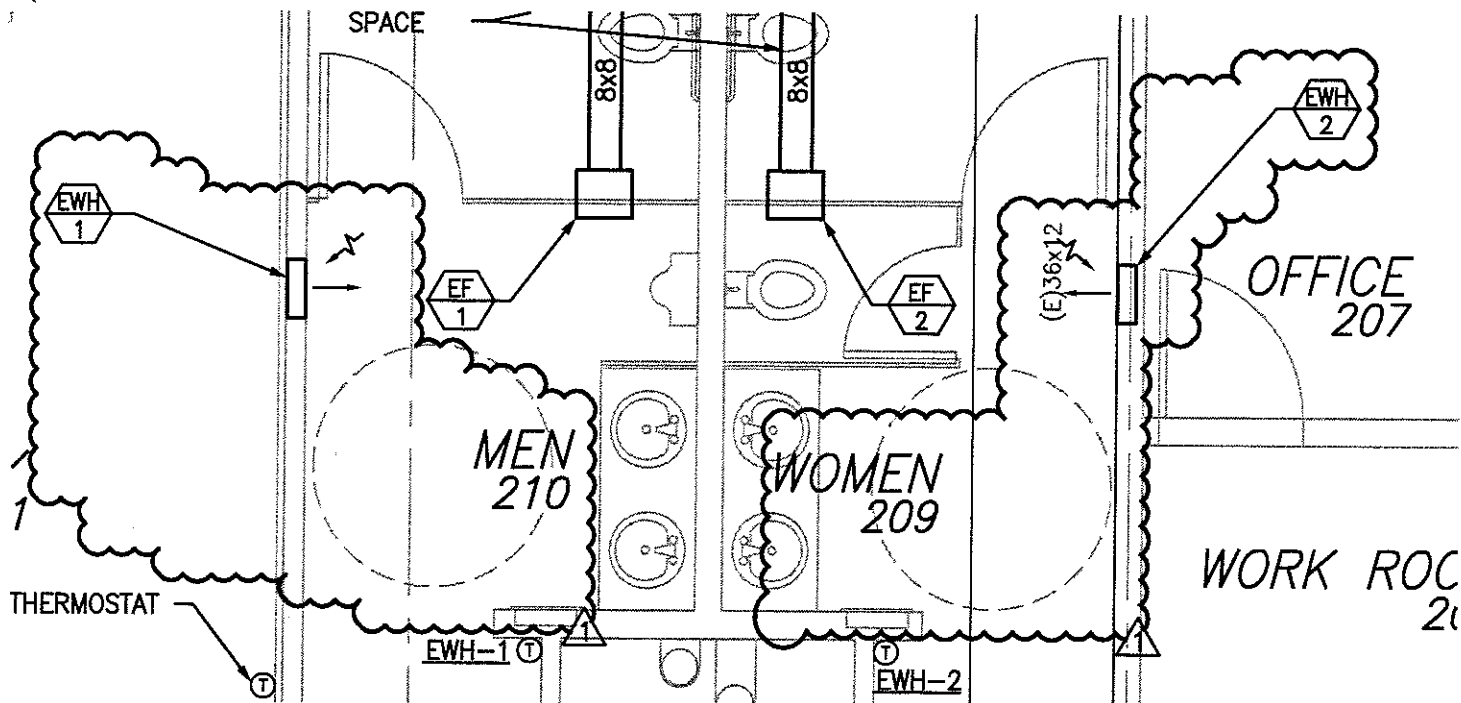
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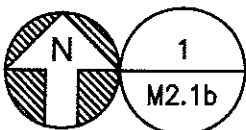
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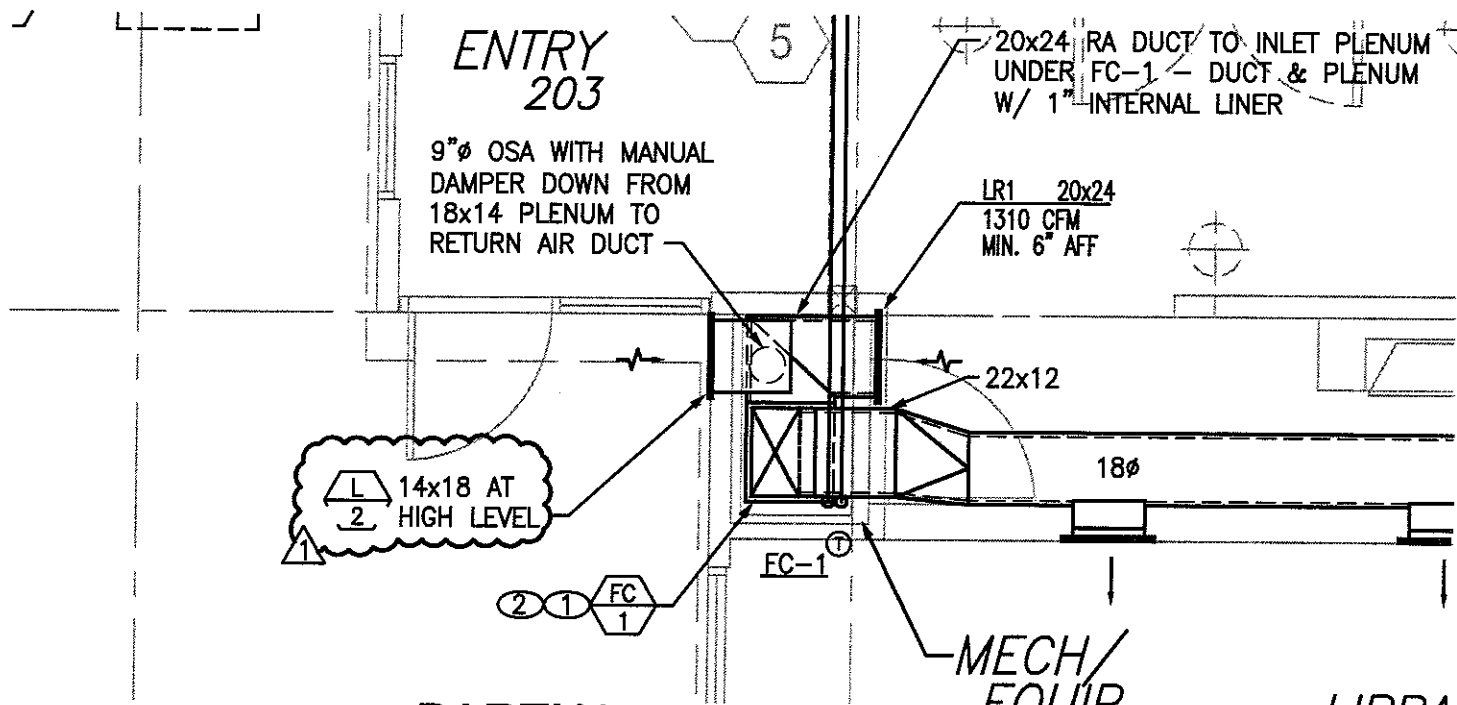


PARTIAL

HVAC PLAN - UPPER LEVEL - EAST

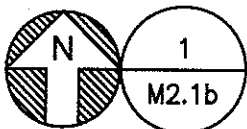


SCALE: 1/4" = 1'-0"



PARTIAL

HVAC PLAN - UPPER LEVEL - EAST



SCALE: 1/4" = 1'-0"

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